

International Institute of Information Technology

P-14 Rajiv Gandhi Infotech Park, Phase-1, Hinjawadi, Pune-411057

Criterion 7 – Institutional Values and Best Practices

7.2 Best practices:

7.2.1 Describe at least two institutional best practices successfully implemented

Practice-1:

1. Title of the Practice: Innovative Teaching and Learning practices

2. Objectives of the Practice:

- Foster a dynamic and engaging learning environment that stimulates critical thinking and creativity among students.
- Integrate modern pedagogical methods to enhance the overall effectiveness of teaching and learning.
- Encourage faculty members to explore and implement innovative strategies to address diverse learning styles.

3. The Context:

• In the ever-evolving landscape of education, it is crucial to adapt and implement innovative practices in teaching and learning. This practice aims to revitalize our educational approach, ensuring that students are well-prepared for the challenges of the future.

4. The Practice:

The institution has initiated various innovative teaching and learning practices, including:

- <u>Integration of technology</u>: incorporating interactive online platforms, virtual simulations, and multimedia resources to enhance learning experiences.
- <u>Project-based learning</u>: encouraging students to apply theoretical knowledge to real-world scenarios through hands-on projects.



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• <u>Flipped classroom model</u>: Inverting the traditional teaching model by delivering instructional content outside the classroom and using class time for interactive discussions and activities.

5. Evidence of Success:

- Improved student engagement and participation levels in classes.
- Positive feedback from students, indicating increased interest and understanding of course materials.
- Higher retention rates and academic performance among students exposed to innovative teaching methods.

6. Problems encountered and Resources Required:

Problems encountered:

- Resistance to change among some faculty members.
- Initial learning curve for both faculty and students in adapting to new technologies and methodologies.

Resources Required:

- Professional development programs for faculty to enhance their skills in innovative teaching methods.
- Investment in advanced educational technology and resources.
- Ongoing support and mentorship to address challenges and ensure successful implementation.





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International Institute of Information Technology, Pune DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Innovative Practices in Teaching-Learning Flip Classroom Activity

Academic Year and Semester: AY 2022-23 Sem I

Branch: E&TC Class: TE Subject: Elective-I: Fundamentals of JAVA Programming

Subject code: 304185C Day and Date: Tuesday, 18/10/2022

Objectives of the activity:

a) To adapt innovative teaching-learning methodologies in order to optimize the involvement of all learner types.

b) To comprehend the features of JAVA in file handling.

c) In order to promote self-learning.

d) To develop "Higher Order Thinking Skills" in order to facilitate successful teaching and learning.

The learning outcomes of the activity:

After completion of the activity, students will be able to:

- a) Illustrate the features of JAVA in file handling. [Application]
- b) Demonstrate their Self-learning skill. [Application]

No. of Students attended: 61

List of resources shared: Video on the topic "File Handling in JAVA"



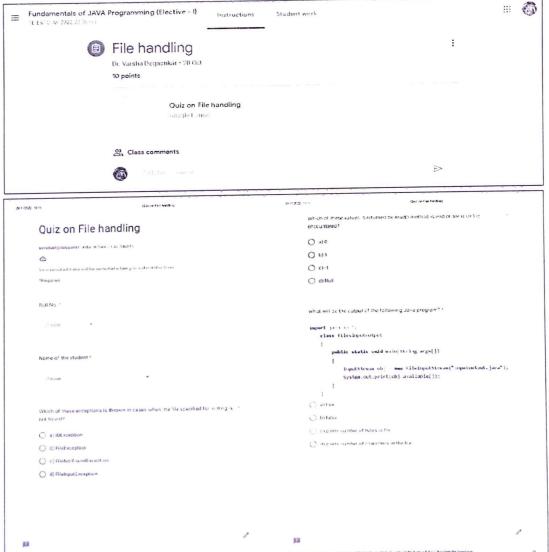
Conduction platform: Google Classroom

Assessment tool: Direct: Quiz on topic File handling in Java (5 questions of 2 marks each)

Steps followed for effective implementation:

- 1) Students are requested to watch the Video which is posted on Google Classroom.
- 2) The goal is for students to spend more time in class working to develop Higher Order Thinking Skills (HOTS). The teacher will guide the students to practice the contents most effectively through some assessments.
- 3) Quiz is conducted in the next session on the topic to check the understanding of students.
- 4) Later the topic is revised in the session.

Details for student submission: Quiz Assignment on Google Classroom



Process followed for performance Evaluation:

- A Quiz on the topic "File handling in Java" with 5 questions is floated.
- Each question in the quiz carried 2 marks.
- Following is the list of students who attempted the quiz with marks.

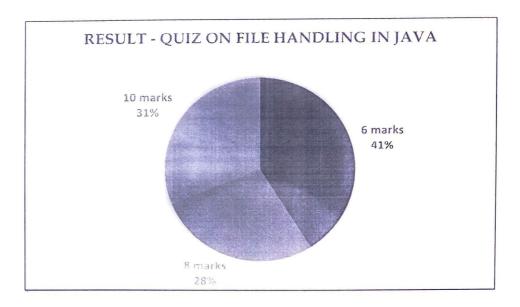
	At the student	Marks	Roll No.	Name of the student	Marks
Roll No.	Name of the student	8	TE22133	MANDLK GAURI PRAVIN	6
TE22101	ALTE SHRUTI VILAS	10	TE22134	MANE NEHA SAMBHAJI	10
TE22102	ANKIT RAJ SHARMA	8	TE22135	MISHRA YASH MANOJ	10
TE22103	APURVA SANTOSH APUNE	6	TE22136	MRUNMAI PRAVIN KULKARNI	8
TE22104	ARGULWAR AJAY MANOJ	6	TE22137	MUJAWAR SALMAN BABULAL	6
TE22105	ATHARVA SAGAR CHATUR	8	TE22138	NADARGE SAKSHI ANIL	6
TE22106	BARAVKAR PIYUSH SURESH	6	TE22139	PARKHE KHUSHI KIRAN	8
TE22107	BARI SAKSHI SUNIL	10	TE22140	PATIL ANUSHREE UMESH	6
TE22108	BHURE RUPESH DATTA	10	TE22141	PATIL DIGVIJAY RAVIRAJ	10
TE22109	BHURE VYANKAT ACHYUTE	8	TE22142	PATIL SAKSHI ULHAS	8
TE22110	CHITNIS CHINMAY MAHESH	AB	TE22143	PATIL VAISHALI UMAKANT	10
TE22111	DAYMA GIRIRAJ MANISH	2.5300	TE22144	RANE YASH YOGIRAJ	6
TE22112	DESAI GAURI SANJAY	6	TE22144	RAVI PRAKASH	6
TE22113	GAIDHANI VISHVESH PUSHKAR	8	TE22145		10
TE22114		-	TE22147	TOND	8
TE22115		6	TE22147		6
TE22116		10	TE22149		6
TE22117		10			8
TE22118		10	TE22150		6
TE22119		8	TE22151	TIME THE PROPERTY OF THE PROPERTY AND THE PROPERTY OF THE PROP	10
TE22120		6	TE22152	The state of the s	10
TE22121	800,000,000	AB	TE22153		8
TE22122		6	TE22154		6
TE22123			TE22155		6
TE22124	4 KHAMGAL NIKITA VITTHAL	6	TE2215		8
TE2212	5 KHOLE DHANANJAY VIVEK	6	TE2215	The second section is a second	6
TE2212	6 KHOT SHRISHAIL SANJAY	10	TE2215		-
TE2212	7 KODAG SARTHAK MAHENDRA	10	TE2215		10
TE2212		8	TE2216		1
TE2212	9 MAHARAJ SHUBHAM KRISHNAMURARI	6	TE2216		1
TE2213	MALAVADE MEGHNA NITIN	6	TE2216		-
TE2213	MALEGAVI PRAJWAL ASHOK	8	TE2210	33 YUKTA MILIND KABRA	- '
TE2213	32 MALI VIRENDRA MUKUNDRAJ	10			

Feedback analysis of Direct Assessment:

Average Result: 7.8







The strategy used was a good success. The students learnt the concept very well and actively participated in the activity.

Reflective critiques:

- 1. Challenges: It is observed that a few students have not watched the video even though the reminder was given. Also, it is observed that many students have copied answers from others students.
- 2. Steps to be taken to avoid the problems: To avoid these challenges, next time students will be encouraged by announcing the prizes for this type of activity.
- 3. Changes for the next activity: Next time, this activity will have prizes for the correct submission of answers for the first 10 timely responses.

Dr Varsha Degaonkar

Signature of the Course Teacher



International Institute of Information Technology, Pune DEPARTMENT OF INFORMATION TECHNOLOGY Innovative Practices in Teaching-Learning Activity

Think-pair -share

Role of Machine Learning in Autonomous vehicle

Academic Year and: 2022-23 Semester: V
Branch: IT Class: TE

Subject: Machine Learning Subject code: 314443

Day and Date: Wednesday,12th Oct.2022

Brief about the activity:

• Objectives of the activity:

- i) To encourage students for individual reflection, thinking, and processing new information before they may be influenced by other students' answers.
- ii) To teach the students how to explain their thoughts first to a peer, and then to a larger audience (the entire class).

• Expected outcome:

- i) To let students to talk and learn more in a natural way.
- ii) To give them the chance to think and try out ideas and new language.
- iii)To provide a comfortable way for students to work through new skills and concepts, and works well in large classes.

• Relevance:

- i) The Think-Pair-Share activity gives them the opportunity to feel more comfortable sharing their thoughts about new technology.
- ii)In addition to adopting social skills, this strategy also improves students' speaking and listening skills.

• Justification:

Think-Pair-Share is a cooperative learning activity that can work in varied size classrooms and in any subject

No. of Students attended: **60** List of resources shared:

- 1) https://www.electronicdesign.com/markets/automotive/article/21147200/nxp-semiconductors-the-role-of-machine-learning-in-autonomous-vehicles
- 2) https://www.youtube.com/watch?v=-UPfyvDJz9I
- $3\) https://medium.com/@gtssidata5555/role-of-machine-learning-in-autonomous-vehicles-3c98f1edaf15$



@ 28 Sept 2022, 12:23

Dear students,

Find the topic for the Think Pair Share activity scheduled on 12th Oct. at 10:45am.

Topic Role of machine learning in autonomous vehicles

Group A - Roll No.(1 -15) -- Object detection

Group B - Roll No.(16 -30) -- Classification

Group C - Roll No.(31 -45) -- Segmentation

Group D - Roll No.(46 -60) -- Tracking

Group E - Roll No.(61 -77) -- Prediction

Find the below links to explore the topic

- 1) https://www.electronicdesign.com/markets/automotive/article/21147200/nxp-semiconductors-the-role-of-machine-learning-in-autonomous-vehicles
- 2) https://www.youtube.com/watch?v=-UPfyvDJz9I
- 3 https://medium.com/@gtssidata5555/role-of-machine-learning-in-autonomous-vehicles-3c98f1edaf15

Conduction platform (if any): Classroom

Proofs of the activity (brief description and steps followed for effective implementation):

- 1) Topic "Role of Machine Learning in Autonomous Vehicles" is divided in the following groups as per different ML techniques used
 - Group A Roll No.(1 -15) -- Object detection
 - Group B Roll No.(16 30) -- Classification
 - Group C Roll No.(31 -45) -- Segmentation
 - Group D Roll No.(46 -60) -- Tracking
 - Group E Roll No.(61 -77) Prediction
- 2) T: (Think) Teachers begin by asking a specific question about the above subtopics to the group. Students "think" about what they know or have learned about the topic from given resource.
- 3) P: (Pair) Each student's group paired with another group.
- 4) S: (Share) volunteer of each group shared their thinking with another group.
- 5) Activity concluded with summarization of all ML techniques used in Autonomous vehicle.



Glimpse of Think -Pair -Share activity

Feedback analysis of both Direct and Indirect assessment: Indirect (feedback of event outcomes on the scale of excellent-5 to poor-1):

Do you prefer to work and share with your friend before answering the question during the lecture?	83.6%
Did you benefit from applying think-pair-share strategy with the friend in your group during this activity?	23.9%
Do you find that there is fun and you enjoy applying think-pair-share strategy during this activity?	22.4% 22.4% 55.2%
Is there an exchange and sharing of opinions, thoughts and ideas between you and your friends when applying think-pair-share strategy during this activity?	70.1%
Do you think applying think-pair-share strategy boosts your self-confidence?	70.1%

Impact of the innovative practice:

Students were able to present their seminar topics in systematic way.

Signature of the Course Teacher

Think-Pair-Share

Read the following question or problem:

Role of machine learning- Object detection in autonomous vehicles

On your own, write three ideas you have about this question or problem:

- 1. Automatic packing of cas using object detection.
- 2. Automotic detection of traffic lights
- 3. speed conteol and automotic breaking system.

Pair

Discuss your ideas with a partner. Put a check by any ideas, above, that your partner also wrote down. Then, write down ideas your partner had that you did not have:

- 1. Emergency vehicle detection and giving them paiosity
- 2. Automatic headlight according to daylight
- 3. Traffic sign & sympos detection and speed management

Share

Review all of your ideas and circle the one you think is most important. One of you will share this idea with the whole group.

As you listen to the ideas of the whole group, write down three more ideas you liked:

- 1. YOLO (you only look once)
- 2. Computer vision
- 3. CNN

Think-Pair-Share

Read the following question or problem:

Role of machine learning- Classification in autonomous vehicles

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On your own, write three ideas you have about this question or problem:

- 1. While training the vehicle more importance is given to features.
 eg: Shape
 2. It is hard to detect pathholes, if it is filled with water
- 3. Hard to differentiate between Mirage effect and Shinning of metals (present on car)

Pair

Discuss your ideas with a partner. Put a check by any ideas, above, that your partner also wrote down. Then, write down ideas your partner had that you did not have:

1. Hard to interpret between fog & heavy rain.
2. Hard to predict roadlanes in hilly area.
3. After detecting safety matters.

Review all of your ideas and circle the one you think is most important. One of Share you will share this idea with the whole group.

As you listen to the ideas of the whole group, write down three more ideas you liked:

1. Naive Bayes 2. Decision Tree	
2. Decision Tree	
3. Support Vector Machine	

Date_12th Oct.2022

Think-Pair-Share

Read the following question or problem:

Role of machine learning- Segmentation in autonomous vehicles

On your own, write three ideas you have about this question or problem:	
1. CHH approach is used to map pixels from camera?	nput
2. We can use OpenCV to lane detection.	

3. With RHH's ability to learn from the past, we're able to create a safer of uture for autonomous vehicles.

Pair

Think

)

Discuss your ideas with a partner. Put a check by any ideas, above, that your partner also wrote down. Then, write down ideas your partner had that you did not have:

1. CNN cannot be used always, as it does not detect z the orientation. So here we use openCV. 3. For autonomous vehicle driving Bayesian algorithm be used for object detection 3. NAS Share

Review all of your ideas and circle the one you think is most important. One of you will share this idea with the whole group.

As you listen to the ideas of the whole group, write down three more ideas you liked:

1. CNN	openci	1, NAS	: Objec-	t det	ecti	on.	
2. Bay	esian	algoril	hm for	- aut	ono	mocus	driving.
3 Dee	p leary	ning m	ethod:	FCN	to	detec	· l- path.
J		()					1

Think-Pair-Share

Read the following question or pro	blem:	:
------------------------------------	-------	---

Role of machine learning- Tracking in autonomous vehicles

	and the second second	
Think		
On your own, write three ideas ye	ou have about this question or problem:	
1. Detect obstacles wing	patterns, cg) setra-crossing	
2. Calculating shortest and	I least - traffic path	
3. Detect moving objects	and slow the speed	_
V		
Dein		
Pair Discuss your ideas with a partne partner also wrote down. Then, y not have:	er. Put a check by any ideas, above, that you write down ideas your partner had that you	ur did
1. Use of harris cor	ner detection.	_
2. Selecting Shortest	effective path using different all	o alles
3. Use of neural	networking.	_
Share Review all of your ideas and circ you will share this idea with the	cle the one you think is most important. One whole group.	
liked:	whole group, write down three more ideas y	
1 Use OF GIPS FOO	s shortest path calculation.	-
2 Combining GPS	and object detection for accidents.	
avoiding envi	or accidents.	ě
J avoice.		

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Think-Pair-Share

Read the following question or problem:

Role of machine learning- Prediction in autonomous vehicles

Think

On your own, write three ideas you have about this question or problem:

- 1. Inputs for prediction comes from sensors like Radar, LIDAR etc.
- 2. Using per comera networks to analyze raw images for performing object
 3. On the basis of vehicle speed, type of vehicle we can
 predict to overtake the vehicle or not.

Pair

Discuss your ideas with a partner. Put a check by any ideas, above, that your partner also wrote down. Then, write down ideas your partner had that you did not have:

1. Based on visualization of camera we can use dataset for identifying 2. We can take help from open source application such as grap quality to get the best route.

Review all of your ideas and circle the one you think is most important. One of you will share this idea with the whole group.

As you listen to the ideas of the whole group, write down three more ideas you liked: autopilot

- 1. Building autopiolet neural networks by gathering accurate and large scale 2. Risk analysis based on previous road accident zone indicators.
- 3. Model based approach Identifies common behaviors of vehicle using multi model estimation algorithm.

4. Data driven approach.

- Naive Bayes classifier



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Criterion 7 – Institutional Values and Best Practices

7.2 Best practices:

7.2.1 Describe at least two institutional best practices successfully implemented

Practice-2:

Title of the Practice: Improving quality of Continuous Internal Evaluation (CIE)

1. Objectives of the Practice:

- Establish a systematic and comprehensive program assessment process to ensure continuous improvement in quality of internal examination question papers.
- For planning and monitoring of academic activities as well as continuous internal evaluation.

2. The Context:

• In response to the need for continuous enhancement and quality assurance, the institution has established a Program Assessment Committee (PAC) responsible for evaluating the effectiveness of academic programs.

3. The Practice:

- <u>Formation of Program Assessment Committee (PAC):</u> The Program Assessment Committee is constituted in all departments to monitor and improve quality of internal evaluation. The PAC committee conducts regular assessments, focusing on:
- Perform curriculum GAP analysis at the beginning of academic year and recommend suggestions to Head of departments to fill the gaps.
- Monitoring the attainment of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs).
- To recommend and incorporate suggestions from the DAB (Department Advisory Board) and stakeholders with respect to Program Educational Objectives and Program Specific Outcomes.
- Evaluating program effectiveness and proposing necessary improvements.



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- Incorporate the suggestions from IQAC.
- Preparing periodic reports on program activities, progress, status, or other special reports of the department.

4. Evidence of success:

- Identification of curriculum gaps at the beginning of the academic year.
- Enhanced quality of internal test question papers with higher BTL levels.

5. Problems encountered and Resources Required:

Problems encountered:

- Limited awareness and understanding of assessment processes among faculty.
- Resistance to data-driven decision-making.

Resources Required:

- Training programs to familiarize faculty with assessment methodologies.
- Software and tools for efficient data collection and analysis.





INOVATION & LEADERSHIP

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY (12IT)

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DTE Code: EN 6754 | AISHE Code: C-41681

Date: 01-09-2022

Department of Electronics and Telecommunication

Program Assessment Committee

The Program Assessment Committee (PAC) consisting of following members has been formed for planning and monitoring of academic activities for AY2022-23.

PAC Composition for AY2022-23

Name of the member	Category	Designation
Dr. Risil Chhatrala	HoD	Chairman
Dr. Varsha Degaonkar	APMC Coordinator	Member
Prof. Ashvini Kulkarni	Academic Coordinator	Member
Prof. Bhagyashri Thorat	Class teacher BE	Member
Prof. Dikshendra Sarpate	Class teacher TE	Member
Prof. Suvarna Hande	Class teacher SE	Member

Roles and responsibilities

- At the start of academic year, perform curriculum GAP analysis and recommended suggestions to fill the gaps
- Monitoring the attainment of Program Outcomes (POs), Program Specific Outcomes (PSO), Program Educational Objectives (PEOs).
- To recommend and incorporate the suggestions from the DAB (Department Advisory Board), stake holders in respect of Program Educational Objectives and Program Specific Outcomes.
- Evaluating program effectiveness and propose necessary improvements.
- Incorporate the suggestions from the IQAC.
- Preparing periodic reports on program activities, progress, status or other special reports of Department.

Dr. Risil Chhatrala Head of Department Dr. Vaishali V. Patil Principal

CC: 1. Members

2. Other Departments

3. IQAC Office

24/08/2022, 22:51

Class Test 1 Exam TE E&TC Elective - 1 Fundamentals of JAVA Programming

Hope Foundation's

International Institute of Information Technology, Pune

Department of Electronics and Telecommunication

AY2022-2023, Semester I

Class: TE

Subject: Elective-I Fundamentals of JAVA Programming

Maximum Marks: 30 Marks

Day and Date: Thursday 25/08/2022

Time: 8.30 am to 9.30 am

varshad@isquareit.edu.in Switch accounts

0

*Required

Email *

Your email address

Choose

Name of the Student *

1. Which of these jump statements can skip processing the remainder of the code in its body for a particular iteration? BTL2 C0305.1

O a) break

O b) return

O c) exit

d) continue

2. Which of the following loops will execute the body of loop even when condition controlling the loop * is initially false? BTL2 C0305.1

Marks: 1

a) do-while

O b) while

O c) for

O d) none of the mentioned

-

https://docs.google.com/cms/c/e/1FAlpQLSq0/860/Cx27n2GOO/O6N73/UEwF_0dOP9zhKMRJstYg/wew/cm

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Class Test 1 Exam TE E&TC Elective - I Fundamentals of JAVA Programming

```
3. What will be the output of the following Java program? BTL3 C0305.1 ^{\star} Marks: 2
```

```
public class Main{
   public static void main(String args[])
   {
      int a = 1;
      int b = 2;
      int b = 2;
```

int c = 3;

a |= 4;

```
b >>= 1;
c <<= 1;
a ^= c;
System.out.println(a + " " + b + " " + c);</pre>
```

- a) 316
- O b) 223
- O c)234
- O d)336

4. Which of these statements are incorrect? BTL2 CO305.1 $^{\ast}\,$

- a) Assignment operators are more efficiently implemented by Java run-time system than their equivalent long forms
- b) Assignment operators run faster than their equivalent long forms
- C) c) Assignment operators can be used only with numeric and character data type
- d) None of the mentioned

5. Which of these is an incorrect array declaration? BTL2 CO305.1* Marks: 1

O a) int arr[] = new int[5]

- () b) int [] arr = new int[5]
- O c) int arr[] = new int[5]
- (d) int arr[] = int [5] new

6. Which of these operators is used to allocate memory to array variable in Java? BTL2 CO305.1 * Marks: 1

- O a) malloc

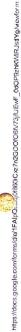
O b) alloc

- c) new
- O d) new malloc

F. Which of these can not be used for a variable name in Java? B7L2 CO305.1 * Marks: 1

- O a) identifier
- b) keyword
- O c) identifier & keyword
- O d) none of the mentioned





Class Test 1 Exam TE E&TC Elective -- I Fundamentals of JAVA Programming

24/08/2022, 22:51

```
double num[] = {5.5, 10.1, 11, 12.8, 56.9, 2.5};
                                                                               public static void main(String args[])
{
                                                                                                                                                                                          System.out.print(++g * 8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      public static void main(String args[])
      10. What will be the output of the following Java code? BTL2 CO305.1 ^{\star}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11. What will be the output of the following Java code? BTL2 CO305.1 ^{\ast}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         result = 0;
for (int i = 0; i < 6; ++i)
    result = result + num[i];</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          System.out.print(result/6);
                                                                                                                                                               int g = 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       double result;
                                                                              public class Main{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    public class Main{
                                                                                                                                                                                                                                                                                                                                  O b) 24
                                                                                                                                                                                                                                                                                                                                                                              c) 32
                                                                                                                                                                                                                                                                                                                                                                                                                  O d) 33
                                                                                                                                                                                                                                                                                         O a) 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Marks: 2
                                 Marks: 2
                                                                                                                                                                                                                                                                                                                                                                                                            public static void main(String args[])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             System.out.print((int)a);
                                                                                                                                                                                                                                                                                                      9. What will be the output of the following Java code? BTL3 {\sf CO305.1}^*
8. Which of these is long data type literal? BTL2 CO305.1 *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     char a = 'A';
                                                                                                                                                                                                                                                                                                                                                                                 public class Main{
                                                                                                                  O b) ABCDEFG
                                                                                                                                                                                                  O d) 99671246
                                                                                                                                                         C) 0x99fffa
                                                                         a) 0x99fffL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     O c) 65
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              O d) 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a) 66
                            Marks: 1
```

0

O a) 16.34

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0

c) 16.4666666666667

O d) 16.4666666666666

12. What is not the use of the "this" keyword in Java? BTL2 CO305.2 st

a) Passing itself to another method

O b) Calling another constructor in constructor chaining

C) Referring to the instance variable when local variable has the same name

d) Passing itself to method of the same class

13. What will be the output of the following Java program? B71.3 CO305.2 * Marks: 2

void volume(int height, int length, int width){ volume = width*height*length; int height; int length; int volume; int width;

public static void main(String args[]){ System.out.println(obj.volume); box obj = new box(); obj.volume(3,2,1); obj.height = 1; obj.length = 5; obj.width = 5; class Main{

nttgs//docs.google.com/tome/de/1FAlpOLS/g08801C.xZTn2COO1C9NT3/NEwF_b0OPQnNVMRJs1lYg/MeMorm

0 (e)

Class Test 1 Exam TE E&TC Elective - I Fundamentals of JAM Programming

b) 1 c) 6

24/08/2022, 22:51

d) 25

14. Which of these statements is incorrect? BTL2 C0305.2 * Marks: 1 a) All object of a class are allotted memory for the all the vanables defined in the

b) If a function is defined public it can be accessed by object of other class by inheritation

O c) main() method must be made public

d) All object of a class are allotted memory for the methods defined in the class

15. Which method can be defined only once in a program? B7L2 C0305.2 * Marks: 1

a) main method

O b) finalize method

O c) static method

O d) private method

16. Which of the following is a method having the same name as that of its class? BTL2 CO336.2 * Marks: 1

O a) finalize

O b) delete

O c) class

1

d) constructor

8:3

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19. What will be the output of the following Java program? BTL3 CO305.2 * Marks: 2

17. What will be the output of the following Java program? BTL3 CO305.2 st

```
public static void main(String args[])
                                                                                                                                        System.out.println(x);
                                                                                                                     int x = 8;
                                                          int x = 9;
if (x == 9)
public class Main{
```

O a) 9

int y = obj.width * obj.height * obj.length;

System.out.print(y);

obj.length = 10;

public static void main(String args[]){

int length; int height;

int width;

class box {

Marks: 2

public class Main{

box obj = new box();

obj.width = 10; obj.height = 2;

- 8 (q O
- c) Compilation error
- O d) Runtime error

20. Which of these statements is incorrect? BTL2 CO305.2 *

Marks: 1

a) Every class must contain a main() method

- () b) Applets do not require a main() method at all
- C) There can be only one main() method in a program
- O d) main() method must be made public

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https://docs.google.com/forms/d/e/1FAlpQLSdj0f860iCxz7n2GOOf06N73jfUEwF_0d0PgzhKWRJstlYg/niewform

O d) Public method can be accessed by calling object of the public class

b) Public method is accessible only to subclasses of its parent class

O c) Public method can only be called by object of its class

a) Public method is accessible to all other classes in the hierarchy

18. Which of the following statements is correct? BTL2 CO305.2 "

d) 100

b) 200) c) 400

O a) 12

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Dr. Vartha D. Sub. Frenhegy

21. Which of these operators is used to allocate memory for an object? B7L2 C0305.2 *

Marks: 1

O a) malloc

- O b) alloc
- c) new
- O d) give

22. Which of the following is a valid declaration of an object of class $\mbox{Box} ? \mbox{BTL2}\mbox{CO305.2}\ ^*$ Marks: 1

- a) Box obj = new Box();
- b) Box obj = new Box;
- c) obj = new Box();
- O d) new Box obj;

23. What is stored in the object obj in the following lines of Java code? $\,$ box obj; $\,$ BTL2 CO305.2 *

- a) Memory address of allocated memory of object
- b) NULL
- O c) Any arbitrary pointer
- O d) Garbage

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