

Write a class NumGuesserGame in which a computer generates a random number from 1-10. User has to identify the number generated by computer. The computer will response as Correct Guess if guess is correct otherwise response as not correct.

**[20 Marks]**

Create an AWT frame that receives 3 numeric values as input from the user and then displays largest of three on the screen.

**[30 Marks]**

Create an abstract class Shape. Derive three classes sphere, cone and cylinder from it. Calculate area and volume of all. (Use Method overriding) **[20 Marks]**

Write a Java Program to accept the details of Employee from the user and display it on the next Frame. (Use AWT) **[30 Marks]**

- Write a program in java which consist two classes super and sub class. Sub class  
Should extend super class but should not override the methods of super class  
[20 Marks]
- 2) Write a java program to accept the details of registration from the user and display  
registered information on the next Frame. [30 Marks]

Write a program to define an abstract class RoundShape with one data member radius and a constant PI. Declare abstract methods findArea() and findVolume(). Define a sub class Sphere and calculate the area and volume of a sphere object. **[20 Marks]**

Write a Java program to create a combo box which includes list of subjects. Display the selected subject in the text field using Swing /AWT **[30 Marks]**

Create a super class Student (rno, name, class) and a sub class Marks (m1, m2, m3). Write a program in java which will calculate total marks and percentage of 3 students. [20 Marks]

Design a screen in java which accepts text in a textbox. Convert the text to bold if user clicks on **bold button** and to italic if user click on Italic button. [30 Marks]

Write a program using thread to print prime numbers between 2 to 50 with a delay of 1 second. **[20 Marks]**

Write a program to display “All The Best” in 5 different colors on screen. (Using AWT/Swing). **[30 Marks]**

- 1) Write a program using thread to display the items TV, Refrigerator, Washing Machine, Music System, Dish Washer continuously with a delay of 1 second.  
**[20 Marks]**
- 2) Write a java program to create a frame containing three buttons (Yes, No, Close) when button yes or no is pressed, message displayed in a label control such as “Button Yes/No is pressed”. By pressing CLOSE button frame window get closed.  
**[30 Marks]**

1) Define a class Item having private members – id, itemname, price. Define default and parameterized constructors. Create a subclass called “Offer” with private member discount, percentage. Define methods accept and display in both the classes. Create n objects of the Offer class and display the details of the Offer having the minimum total price (price-discount). **[20 Marks]**

2) Write a java program using swing to create a frame having three text fields. Accept number in first textfield and display previous number in second textfield and next number in the third textfield. **[30 Marks]**



Write a program using thread to squares of numbers from 1 to 30, with a delay of 1 second. (20 M)

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. (30 M)

Enter File Name from current folder

```
Hello World!!!  
I am a vegetarian.  
I live in Pune.  
I study in MIT college.
```

Write a program to accept a file name, display the file contents line by line with a delay of 1 second. (20 M)

Write a program using AWT to design following screen, also use ItemListener interface to execute all the functionalities. (30 M)

Enter Customer Name

Select Background Colour for Textbox

- ☐ Red
- ☐ Green
- ☐ Blue

Select Foreground Colour for Textbox

- ☐ Red
- ☐ Green
- ☐ Blue

1) Write a Java Program which will define two threads that displays “MCA” & “Commerce” randomly on screen. **(20 M)**

2) Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities.

Enter Your Name

Select Font size for Textbox

- ☐ 14
- ☐ 16
- ☐ 18

Select Style for Textbox

- ☐ Bold
- ☐ Italic

Write a JAVA program which will generate following threads

To display 10 terms of Fibonacci series.

To display 1 to 20 in reverse order

Write a program using AWT to design following screen, also use ItemListener  
interface to execute all the functionalities. (30)

Enter Your Name

Select Font size for Textbox

- ☐ 14
- ☐ 16
- ☐ 18

Select Style for Textbox

- ☐ Bold
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Write a JAVA program which will create two child threads by implementing Runnable interface, one thread will print even nos. from 1 to 50 and other display odd nos

**(20 M)**

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities.

**Accept a number and power for it, display the result e.g. num=3, pow=4, res=3\*3\*3\*3=81**

Enter Number

Enter Power

**(30 M)**

Write a Java program to create a thread which displays odd numbers from 1 to 50.

**(20 M)**

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities.

**(30 M)**

### Print Table

Enter Number

2
4
6
8
10

**Write a Java program to display “Hello Java” 50 times using multithreading**

)

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. (30 M)

**Print Square or Cube**

Enter Number

Square :25

Cube :125

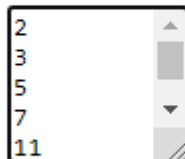
Write a programs that create 2 threads – each displaying a message (Pass the message as a parameter to the constructor). The threads should display the messages continuously till the user presses ctrl-c. Also display the thread information as it is running

**(20 M)**

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. **(30 M)**

### **Print Prime Numbers between 1 to limit**

Enter Limit



2  
3  
5  
7  
11

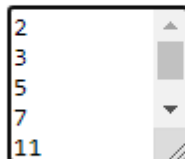


Define an Employee class with suitable attributes having getSalary() method, which returns salary withdrawn by a particular employee. Write a class Manager which extends a class Employee, override the getSalary() method, which will return salary of manager By adding traveling allowance, house rent allowance etc [20 Marks]

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. (30 M)

### Print Prime Numbers between 1 to limit

Enter Limit



2  
3  
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11

Write a class NumGuesserGame in which a computer generates a random number from 1-10. User has to identify the number generated by computer. The computer will response as Correct Guess if guess is correct otherwise response as not correct.

[20 Marks]

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. (30 M)

### Print Square or Cube

Enter Number

Square :25

Cube :125

Create an abstract class Shape. Derive three classes sphere, cone and cylinder from it. Calculate area and volume of all. (Use Method overriding) **[20 Marks]**

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities.

**(30 M)**

### Print Table

Enter Number

2
4
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8
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Create a subclass of TwoDShape called Circle. Include an area() method that computes the area of the circle and a constructor that uses super to initialize the TwoDShape portion [20 Marks]

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities.

**Accept a number and power for it, display the result e.g. num=3, pow=4, res=3\*3\*3\*3=81**

Enter Number

Enter Power

)

- 1) Write a program to define an abstract class RoundShape with one data member radius and a constant PI. Declare abstract methods findArea() and findVolume(). Define a sub class Sphere and calculate the area and volume of a sphere object. **[20 Marks]**
- 2) Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. (Login id="India" password="Asia").

Enter Login Id

Enter Password

Login

**(30 M)**

Write a program in java which consist two classes super and sub class. Sub class  
Should extend super class but should not override the methods of super class  
[20 Marks]

2) Write a program using AWT to design following screen, also use  
ItemListener interface to execute all the functionalities.

(30)

Enter Your Name

Select Font size for Textbox

- ☐ 14
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Select Style for Textbox

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**[20 Marks]**

Write a Java program to create three radio buttons. When any of them is selected, an appropriate message is displayed.

**[30 Marks]**



Create a subclass of TwoDShape called Circle. Include an area() method that computes the area of the circle and a constructor that uses super to initialize the TwoDShape portion [20 Marks]

Write a JAVA program to design a screen using Awt : [30 Marks]

String Operations :	
Enter String:	MCA(Comm)
LOWER	mca(comm.)
UPPER	MCA(COMM)
Italic	<i>MCA(COMM)</i>
Bold	<b>MCA(COMM)</b>

Write a program to define an abstract class RoundShape with one data member radius and a constant PI. Declare abstract methods findArea() and findVolume(). Define a sub class Sphere and calculate the area and volume of a sphere object. **[20 Marks]**

Write a Java program to create a combo box which includes list of subjects. Display the selected subject in the text field using Swing/AWT **[30 Marks]**

Create a super class Student (rno, name, class) and a sub class Marks (m1, m2, m3). Write a program in java which will calculate total marks and percentage of 3 students. [20 Marks]

Design a screen in java which accepts text in a textbox. Convert the text to bold if user clicks on **bold button** and to italic if user click on Italic button. [30 Marks]

Write a program using thread to print prime numbers between 2 to 50 with a delay of 1 second. **[20 Marks]**

Write a program to display “All The Best” in 5 different colors on screen. (Using AWT/Swing). **[30 Marks]**

- 1) Create an abstract class shape which consist area().Create two classes circle and Cylinder. Write a java program to calculate area() of both classes. **[20 Marks]**
- 2) Write a Java program to create a check box and choice box which includes list of TV company. Display the appropriate message using AWT. **[30 Marks]**

Write a program using thread to display the items TV, Refrigerator, Washing Machine, Music System, Dish Washer continuously with a delay of 1 second.

**[20 Marks]**

- 2) Write a java program to create a frame containing three buttons (Yes, No, Close) when button yes or no is pressed, message displayed in a label control such as “Button Yes/No is pressed”. By pressing CLOSE button frame window get closed.

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Write a program using thread to squares of numbers from 1 to 30, with a delay of 1 second. (20 M)

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. (30 M)

Enter File Name from current folder

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Hello World!!!  
I am a vegetarian.  
I live in Pune.  
I study in MIT college.
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Write a program to accept a file name, display the file contents line by line with a delay of 1 second. (20 M)

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Enter Number

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**(30 M)**

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**M)**

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### Print Table

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- 1) Define an Employee class with suitable attributes having getSalary() method, which returns salary withdrawn by a particular employee. Write a class Manager which extends a class Employee, override the getSalary() method, which will return salary of manager By adding traveling allowance, house rent allowance etc **[20 Marks]**
- 2) Write a JAVA program to design a screen with two textboxes and start button. Clicking on start should start two threads printing 1 to 100 in two textboxes. **[30 Marks]**

**Write a Java program to display “Hello Java” 50 times using multithreading  
(20 M )**

Write a program using AWT to design following screen, also use ActionListener interface to execute all the functionalities. (30 M)

**Print Square or Cube**

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Square :25

Cube :125

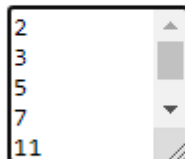
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Enter Limit



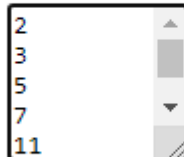
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Apply

Create a super class Student (rno, name, class) and a sub class Marks (m1, m2, m3). Write a program in java which will calculate total marks and percentage of 3 students. **[20 Marks]**

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LOWER	mca(comm.)
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Italic	<i>MCA(COMM)</i>
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Design a screen in java which accepts text in a textbox. Convert the text to bold if user clicks on **bold button** and to italic if user click on Italic button. [30 Marks]

Write a java program which creates an interface IterF1 having 2 methods add () and sub(). Create a class which overloads the given methods for addition and subtraction of two numbers respectively **[20 Marks]**

Write a Java program using AWT to display current date and time and also wish the User accordingly. (if it is am, which user “Good Morning”) **[30 Marks]**

Write a program using thread to print prime numbers between 2 to 50 with a delay of 1 second. **[20 Marks]**

Write a program to display “All The Best” in 5 different colors on screen. (Using AWT/Swing). **[30 Marks]**