

INSTITUTE OF MANAGEMENT STUDIES, NOIDA

SCHOOL OF IT

Academic Session: 2023 - 2024

Java Programming and Webpage Design

List of Practical's

Q1. Write a program to print name of week days using switch case.

Q2. Write a program using string methods.

Q3. Write a program using for-each loop to print array of numbers.

Q4. Write a program using Array List and print its elements.

Q5. Write a program to create Mini Calculator using methods in it.

Q6. Write a program to find area of circle using method and use final keyword for taking value of PI as 3.14.

Q7. Write a program to print Fibonacci series.

Q8. Write a program to print the following pattern: -

1	1	1
22	12	12
333	123	123
4444	1234	1234
55555	12345	12345

Q9. Write a program to read the given input array of marks and find the allocated division

as follows: -Marks	Division
≥ 80	Honors
≥ 60 and ≤ 79	First Division
≥ 40 and ≤ 59	Second Division

>= 30 and <= 39

Third Division

Else

False

Q10. Write a program that has overloaded methods. The first method should accept no arguments, the second method will accept one string and the third method will accept a string and an integer. The first method should display the message "Rose is beautiful flower" twice. The second method should display the message "Sunflower is a beautiful flower" five times. The third method should display the message "Marigold is a beautiful flower" by number of times values received in the argument.

Q11. Write a Java Program to define a class, describe its constructor, overload the Constructors and instantiate its object.

Q12. Create a class called Numeral that has an array of 10 integers. Create a subclass called NumberPlay which has a menu as follows: -

- a) Display numbers entered
- b) Sum of the numbers
- c) Average of the numbers
- d) Maximum of the numbers
- e) Minimum of the numbers

Q13. Write a program that will display the message "Weight of bundle- 5 kgs" in a constructor and display the weight in kilograms and grams passed as an argument.

Q14. Create an abstract class Shape to describe a shape with two dimensions. Define a method to display the area of shape. Create two subclasses: Rectangle and Triangle. Call the display function using reference variable of the class shape.

Q15. Write a program to create an array of string and sort the array elements in alphabetical order.

Q16. Write a Java Program to implement inheritance and demonstrate use of method overriding.

Q17. Write a program to demonstrate use of implementing interfaces.

Q18. Write a Java Program to implement multilevel inheritance by applying various access controls to its data members and methods.

Q19. Write a program to create three thread class A, B and C. Thread class A will print each value of defined array, B class will print a message 10 times. Class C will be responsible for printing the value from 1 to 10 and sleep for few times when reached the value 5.

Q20. Write a program using HTML to create a virtual lab related to any subject of

your choice.

Q21. Write a program using HTML to prepare a simple student registration form.

Q22. Write a program to show the functioning of at least 10 string handling function.

Q23. Write a program to show the functioning of vector.

Q24. Write a program using applet to handle the various checkbox event.

Q25. Write a program using applet to handle the button click event.

Q26. Write a program using AWT to implement a simple calculator.

Q27. Write a program using AWT to implement a simple student's registration form.

Q28. Write a program to convert a decimal number into binary and vice versa.

Q29. Write a program using AWT to implement a notepad application.

Q30. Write a program using JDBC to fetch the detail of employees from existing database whose salary > 5000.

Q31. Write a program using JDBC to fetch the detail of required student from existing database whose id > 4.

Q32. Write a program using socket programming for data communication between client and server over socket.

Q33. Write a program using socket programming in which client will receive a value from the user and send it to server over socket connection. Server is responsible for generating the factorial of the given number as well as find the Fibonacci series up to that limit.

Q34. Write a program using socket programming to create a chat server application.

Q35. Write a program to understand the servlet processing.

Q36. Write a program to understand the JSP processing.