Acropolis Institute of Technology & Research, INDORE

Faculty of Computer Applications

Subject: Programming in Java-1   **Subject Code: MCADD-704(1)**

Class & Semester: MCADD VII   **Submission Date: 17th Oct 2022**

1. Write a Java program to calculate the area of a rectangle.

2. Write a Java program to find the greater among three numbers.

3. Write a Java program that calculates sum of first 100 natural numbers.

4. Write an application in Java that calculates the sum of the odd integers from 1 to 50.

5. Write a Java program to print following output: 0,1,1,2,3…..(20 such items)

6. Write a Java program to determine maximum from given 10 numbers.

7. Write a Java program to calculate the factorial of a given numbers.

8. Write a Java program to show the difference between bitwise operator (&) and short circuit operator (&&).

9. Write a Java program to show the use of ternary operator.

10. Write a Java program to display the use of Literals in a single program. (ie. Numeric, floating point, character, boolean & String.)

11. Write a Java program that takes variables (width, height, depth) from a class 'Box' and calculates the volume in 'Volume' method. Display the result in main method included in Class 'BoxDemo'.

12. Explain following unary operator with suitable Java program: ++, --, !

13. Write a Java program to show the concept to type casing.

14. Write a Java program for Default Constructor

15. Write a Java program to handle Arithmetic Exception.

16. Write a Java program for while loop.

17. Write a Java program to Convert Decimal To Binary

18. Java Program to Display Odd Numbers From 1 to 100

19. Write a Java program to print Diamond Pattern

20. Write a Java program to show the concept of implicit type casting.

21. Write a program for One Dimensional array.

22. Write a program for Abstract classes

23. Write a program for interface

24. Write a program for method overloading

25. Write a program for method overriding.