



Java Third Minor Exam

Practical questions

Total Marks: 20

Attempt any 5 Question.

1. Arithmetic Operations with User Input

Write a program that takes two integer inputs from the user and performs all basic arithmetic operations (addition, subtraction, multiplication, division, and modulus) on them. Display the results of each operation.

2. Bitwise Operations

Implement a program that takes two integers as input and displays their bitwise AND, OR, XOR, left shift, and right shift results.

3. Unary Operators

Write a Java program that demonstrates the use of both pre-increment and post-increment operators. Use a loop to show how the values change with each iteration.

4. Leap Year Checker

Write a Java program that checks whether a given year is a leap year. A year is a leap year if:

- It is divisible by 4,
- If it is divisible by 100, it should also be divisible by 400.

5. **Switch Case Menu**

Develop a simple menu-driven program using a switch-case statement. The menu should include operations like addition, subtraction, multiplication, and division. The program should take user input for the operation and two numbers to perform the calculation.

6. **Continue with Even Numbers**

Write a program that prints all even numbers from 1 to 50. Use a continue statement to skip odd numbers.

7. **Breaking a Loop**

Create a program that prompts the user to enter a series of numbers. The program should terminate when the user enters a negative number and then display the sum of all positive numbers entered.

8. **Factorial Calculation**

Write a program that calculates the factorial of a given number using a for loop. Factorial of n (denoted as $n!$) is the product of all positive integers less than or equal to n .

9. **Fibonacci Series**

Implement a program that prints the first 10 numbers in the Fibonacci series using a while loop.

10. **Pattern Printing**

Develop a program to print the following pattern using nested loops:



"जो अपने सपनों का पीछा करते हैं, वही अपनी किस्मत खुद बनाते हैं।"

(Those who chase their dreams create their own destiny.)

Best Of Luck