

Assignment 2

Challenge yourself daily. The more coding problems you solve, the stronger your problem-solving skills become.

Control Structures:

1. If-Else Statements:

- Write a Java program to check if a number is positive, negative, or zero.
- Implement a program to determine whether a year is a leap year.

2. Switch Statements:

- Create a Java program using a switch statement to display the day of the week based on a user-input number (1 for Sunday, 2 for Monday, etc.).

Loops:

3. For Loops:

- Write a Java program to print the multiplication table of a given number using a for loop.
- Implement a program to calculate the factorial of a number using a for loop.

4. While Loops:

- Create a Java program to find the sum of digits of a number using a while loop.
- Write a program to print Fibonacci series up to a given limit using a while loop.

Methods:

5. Simple Methods with parameter:

- Define a method in Java to find the maximum of two numbers.
- Write a program that calls a method to check if a number is prime.

6. Method Overloading:

- Create a Java program that demonstrates method overloading by having multiple methods with the same name but different parameter types.

Arrays:

7. Array Initialization:

- Write a Java program to initialize an array and display its elements.
- Implement a program to find the sum and average of elements in an array.

8. Array Manipulation:

- Create a program to reverse the elements of an array in Java.
- Write a Java program to find the largest element in an array.