

Task 2

Q1. Write a Java program for a Rock, Paper, Scissors game where the user plays against the computer. The program should repeatedly prompt the user for their choice (Rock, Paper, and Scissors) and display the winner of each round until the user decides to quit. The computer's choice should be randomly generated.

Q2. Smallest Even Multiple

Given a positive integer n , return the smallest positive integer that is a multiple of both 2 and n .

Example: - Input: $n=5$ || Output: 10

Q3. LCM

Write a program to print the LCM of two numbers.

Example 1: - Input: $a=2, b=4$ || Output: 4

Example 2: - Input: $a=7, b=5$ || Output: 35

Q3. GCD

Write a program to print the HCF or GCD of two numbers.

Example 1: - Input: $a=2, b=4$ || Output: 2

Q3. Fibonacci Series

Write a program to generate and print the first N terms of the Fibonacci series.

Example: - Input: $num = 5$ || Output: 0 1 1 2 3 5