

1. Write a C++ program, that asks user to input an number, and check this number is prime number or not.
2. Write a C++ program that calculates the factorial of a number entered by the user using a for loop.
3. Write a C++ program that asks user to input two numbers, and prints all even numbers between these two numbers, using a for loop. It should check the first number should be greater than second number.
4. Write a C++ program that prints the Fibonacci series up to a certain number entered by the user using a while loop.
5. Write a C++ program that asks the user to input 2 numbers, num1 and num2, which should be between 10-50. Use a loop to find the sum of all numbers between num1 and num2. Also, create num3 as a random number between 100-200. In the end, compare the sum and the random number to determine which one is larger.
6. Write a C++ program that asks the user to input 2 numbers, num1 and num2, which should be between 5-30. Use a loop to find the sum of all even numbers between num1 and num2. Also, create num3 as a random number between 200-300. In the end, compare the sum and the random number to determine which one is larger.
7. Write a C++ program that prompts the user to enter four numbers: num1, num2, num3, and num4, all between 1-50. Ensure $\text{num1} < \text{num2}$ and $\text{num3} < \text{num4}$. Use a loop to calculate the sum of even numbers between num1 and num2, and the sum of odd numbers between num3 and num4. Generate a random number (200-500). Compare the two sums and determine whether their product is greater than the random number. Display the largest value.