

Assignment No. – Using Loop Control Structure

Write a program in 'C' to perform the following tasks:

1. Print the first ten natural numbers.
2. Find the sum of first n natural numbers.
3. Print all natural numbers in reverse order from n to 1.
4. Print all even numbers and odd numbers from 1 to 20.
5. Display the cube of a number between 1 to n .
6. Print the multiplication table within a range given by the user.
7. Find the factorial of any number.
8. Display a number in reverse order.
9. Count the number of digits of a number.
10. Find all the numbers between 100 which are divisible by both 11 and 13.
11. Find all prime numbers between 1 to n .
12. Display all Armstrong numbers between 1 to n .
13. Print all Perfect numbers between 1 to n .
14. Enter a number and check whether it is palindrome or not.
15. Display the binary equivalent of a decimal number.
16. Display the decimal equivalent of a binary number.
17. Print the Fibonacci series up to the n^{th} term.
18. Find the largest among ten numbers.
19. Find the GCD and LCM of two numbers using a menu driven program.
20. Find the sum of the following series:
$$1/1! + 1/2! + 1/3! + \dots + 1/n!$$

Signature of the Teacher