

ECS-102 LAB TASK 5 (Assignment) - C Loops

Instructions:

- Submit all .c extension codes in the assignment created on or before Saturday midnight.
- For each question draw flowchart and algorithm and submit it in the assignment created. Algorithm and flowchart can be hand written (jpg) or a document (word/pdf).

1. Write a program to print all even numbers between 0 and an integer number entered by the user using:
 - a. For loop
 - b. While loop
 - c. Do while loop
2. Write a program which counts for the number of digits in an integer number being entered by user using:
 - a. For loop
 - b. While loop
 - c. Do while loop
3. Write a program to calculate the factorial of an integer entered by the user using:
 - a. For loop
 - b. While loop
 - c. Do while loop
4. Write a program to find the sum of a series for user defined number of terms using for and while loop.

$$S = 1 + x + x^2 + \dots + x^n$$

5. WAP to create a four-function calculator. The program requires the user to enter two numbers and an operator. It then performs arithmetic operation: addition, subtraction, multiplication and division using switch statement.