

**Department of Computer Science and Engineering**  
**School of Engineering and Technology, CURAJ**  
**B.Tech. (CSE+ECE+BME) II Sem.**  
**Lab Assignment 3**  
**Programming Lab (Using C)**

---

**Q.1.** Write a C program to print following series up to the n (Value of n will be given by user):

1 2 4 7 11 16 ..... n

**Q.2.** Write a C program to calculate the average of n given number.

**Q.3.** Write a program that acts as a simple calculator. Prompt the user to enter two numbers and an operator (+, -, \*, /) (Using switch).

**Q.4.** Write a program that displays a menu with different options (e.g., "1. Add", "2. Subtract", "3. Multiply", "4. Divide"). Prompt the user to select an option, and execute the corresponding operation based on the user's choice repeat the process until user enter 0 to stop the program.

**Q.5.** Write a C program to determine eligibility for admission to a professional course based on the following criteria:

Marks in Maths  $\geq 65$  and

Marks in Phy  $\geq 55$  and

Marks in Chem  $\geq 50$  and

Total in all three subject  $\geq 190$

or

Total in Math and Physics  $\geq 140$

Display whether the candidate is eligible or not? If candidate is not eligible than give the reason for that as well;

Eg. Candidate is not eligible as marks in physics are less than 55.

**Q. 6.** Write a C program to compute the factorial of any given number.

**Q. 7.** Write a C program to check whether number is prime or not prime.