Term Work for the Lab File

PMC-101 / PMI-101 (MCA/M.Sc.(IT) Sem-I) Session 2022-23

- 1. WAP in C to check whether an input character is alphabet or not?
- 2. WAP in C to check whether a triangle is valid or not by providing all the sides.
- 3. WAP in C to input three side of a triangle and check whether the triangle is equilateral, isosceles, or scalene?
- 4. WAP in C to enter the marks for a student and find percentage and grade. Rules for the grading system are as follows:

Below 30 = F 30 to 44 = E 45 to 59 = D 60 to 74 = C 75 to 84 = B Above 84 = A

Ask the user to enter marks in 5 subjects and display the corresponding grade.

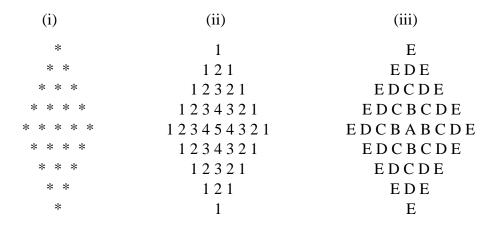
- 5. WAP in C to check whether an input year is leap year or not?
- 6. Write a program in C to print first n prime number.
- 7. Write a program in C to convert a Decimal number into Binary, Octal and Hexadecimal number.
- 8. Write a C program to print the digits of a number in words.

Sample example of Output will be:

Enter any number: 2481

Two Four Eight One

- 9. Write a C program to compute the sum of first N terms for the following series.
 - i) S=1+2!+3!+4!+...
 - ii) $S=1+2^2+3^3+4^4+...$
 - iii) $S=1+2^{2}!+3^{3}!+4^{4}!+...$
 - iv) $S=1+2^{2/2}!+3^{3/3}!+4^{4/4}!+...$
 - v) $S=1+2^{2}!+3^{2}/3!+4^{3}/4!+...$
 - vi) S=1-2!+3!-4!+5!-6!+...
- 10. Write a program in C to find out the highest common factor (HCF) and lowest common multiple (LCM) of two number.
- 11. Write C code to print the following patterns:



12. WAP in C to input time in hour, minutes, and seconds. Display it in proper format. Then input two time-instance and add them and display the added time again in proper format.

First time is 10:12:34 Second time 21:21:59 Added time 31:34:33