**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.

1. WAP in C to check whether an input year is leap year or not?
2. Write a program in C to print first n prime number.
3. Write a program in C to convert a Decimal number into Binary, Octal and Hexadecimal number.
4. 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

1. Write a C program to compute the sum of first N terms for the following series.
2. S=1+2!+3!+4!+….
3. S=1+22+33+44+…
4. S=1+2/2!+3/3!+4/4!+…
5. S=1+22/2!+33/3!+44/4!+…
6. S=1+2/2!+32/3!+43/4!+…
7. S=1-2!+3!-4!+5!-6!+…
8. Write a program in C to find out the highest common factor (HCF) and lowest common multiple (LCM) of two number.
9. Write C code to print the following patterns:

(i) (ii) (iii)

\* 1 E

\* \* 1 2 1 E D E

\* \* \* 1 2 3 2 1 E D C D E

\* \* \* \* 1 2 3 4 3 2 1 E D C B C D E

\* \* \* \* \* 1 2 3 4 5 4 3 2 1 E D C B A B C D E

\* \* \* \* 1 2 3 4 3 2 1 E D C B C D E

\* \* \* 1 2 3 2 1 E D C D E

\* \* 1 2 1 E D E

\* 1 E

1. 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