

TERM WORK For Mid Term Lab

PMC-103 / PMD-103 (MCA/MCA (AI & DS) Sem-I) Session 2025-26

1. WAP in C to check whether an input character is alphabet, digit or special symbol?
2. WAP in C to check whether a triangle is valid or not by providing all the sides. If valid then check whether the triangle is equilateral, isosceles, or scalene?
3. WAP in C to enter the marks in three subjects for a student and find percentage and Scholarship. Rules for the semester scholarship are as follows:

Below 50	=	0
51 to 60	=	5%
61 to 74	=	20%
75 to 84	=	30%
85 & above	=	50%

Semester fee is Rs. 125000/- print the net amount payable.

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

4. WAP in C to check whether an input year is leap year or not?
5. Write a program in C to print first n palindrome number.
6. Write a program in C to convert a Decimal number into Binary, Octal and Hexadecimal number.
7. 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

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

(i)	(ii)
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

11. 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

