

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) $S=1+2!+3!+4!+\dots$
 - ii) $S=1+2^2+3^3+4^4+\dots$
 - iii) $S=1+2/2!+3/3!+4/4!+\dots$
 - iv) $S=1+2^{2/2!}+3^{3/3!}+4^{4/4!}+\dots$
 - v) $S=1+2^{2/2!}+3^{2/3!}+4^{3/4!}+\dots$
 - vi) $S=1-2!+3!-4!+5!-6!+\dots$
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:

(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

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