PG - DAC March 2023

Logical Building & Problem Solving

Assignment - 1(Date:17/03/2023)

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1. Write a program that prints "Hello, World!" to the console.

2. Write a C program to print your name, date of birth, and mobile number.

Expected Output:

Name : Alexandra Abramov
DOB : July 14, 1975
Mobile : 99-9999999999

3. Write a C program to print the following characters in reverse. *Test Characters*: 'X', 'M', 'L'
Expected Output:
The reverse of XML is LMX.

4. Write a C program to compute the perimeter and area of a rectangle with a height of 7 inches and width of 5 inches.
Expected Output:
Perimeter of the rectangle = 24 inches
Area of the rectangle = 35 square inches

5. Write a C program to compute the perimeter and area of a circle with a given radius.
Expected Output:
Perimeter of the Circle = 37.680000 inches
Area of the Circle = 113.040001 square inches

6. Write a C program to display multiple variables.
Sample *Variable*s :
a+ c, x + c,dx + x, ((int) dx) + ax, a + x, s + b, ax + b, s + c, ax + c, ax + ux
Declaration :
int a = 125, b = 12345;
long ax = 1234567890;
short s = 4043;
float x = 2.13459;
double dx = 1.1415927;
char c = 'W';
unsigned long ux = 2541567890;

7. Write a C program to convert specified days into years, weeks and days.
Note: Ignore leap year.

Test Data :
Number of days : 1329
Expected Output :
Years: 3
Weeks: 33
Days: 3

8. Write a C program that accepts two integers from the user and calculates the sum of the two integers.
Test Data :
Input the first integer: 25
Input the second integer: 38
Expected Output:
Sum of the above two integers = 63

9. Write a C program that accepts two integers from the user and calculates the product of the two integers.
Test Data :
Input the first integer: 25
Input the second integer: 15

Expected Output:
Product of the above two integers = 375

10. Write a program that prompts the user to enter two numbers, adds them together, and prints the result to the console.