



PG - DAC Sept 2023

Logical Building & Problem Solving

Assignment - 3 (Date:12/09/2023)

1. Write a program that converts Centigrade to Fahrenheit.

Expected Output :

Input a temperature (in Centigrade): 45
113.000000 degrees Fahrenheit.

2. Write a C program that calculates the volume of a sphere.

Expected Output :

Input the radius of the sphere : 2.56
The volume of sphere is 70.276237.

3. Write a C program that prints the perimeter of a rectangle using its height and width as inputs.

Expected Output :

Input the height of the Rectangle : 5
Input the width of the Rectangle : 7
Perimeter of the Rectangle is : 24.000000

4. Write a C program that converts kilometers per hour to miles per hour.

Expected Output :

Input kilometers per hour: 15
9.320568 miles per hour

5. Write a C program that takes hours and minutes as input, and calculates the total number of minutes.

Expected Output :

Input hours: 5 Input minutes: 37
Total: 337 minutes.

6. Write a program in C that takes minutes as input, and display the total number of hours and minutes.
Expected Output :
Input minutes: 546
9 Hours, 6 Minutes
7. Write a program in C that reads a forename, surname and year of birth and displays the names and the year one after another sequentially.
Expected Output :
Input your firstname: Tom
Input your lastname: Davis
Input your year of birth: 1982
Tom Davis 1982
8. Write a program in C to calculate the sum of three numbers with input on one line separated by a comma.
Expected Output :
Input three numbers separated by comma : 5,10,15
The sum of three numbers : 30
9. Write a C program to perform addition, subtraction, multiplication and division of two numbers.
Expected Output :
Input any two numbers separated by comma : 10,5
The sum of the given numbers : 15
The difference of the given numbers : 5
The product of the given numbers : 50
The quotient of the given numbers : 2.000000
10. Write a C program to find the third angle of a triangle if two angles are given.
Expected Output :
Input two angles of triangle separated by comma : 50,70
Third angle of the triangle : 60