C PROGRAMMING
ASSIGNMENT 02.00

Problem 1: Convert Centigrade to Fahrenheit

Description:
Write a C program that converts a temperature from Centigrade to Fahrenheit. The program should take the temperature in Centigrade as input and print the corresponding temperature in Fahrenheit.

Hint:
Use the following formula to convert Centigrade to Fahrenheit:
Fahrenheit=(9×Centigrade)/5 +32

Example:
Input: 45
Output: 113.000000 degrees Fahrenheit.

Problem 2: Calculate the Volume of a Sphere

Description:
Write a C program that takes the radius of a sphere as input and calculates its volume. The program should print the calculated volume.

Hint:
Use the following formula to calculate the volume of a sphere:
Volume=(4×π×radius×radius ×radius)/3

You can use the value of π\pi$\pi$ as 3.14159.

Example:
Input: 2.56
Output: The volume of sphere is 70.276237.

Problem 3: Convert Hours and Minutes to Total Minutes

Description:
Write a C program that takes hours and minutes as input and calculates the total number of minutes. The program should then print the total number of minutes.

Hint:
To calculate the total minutes, multiply the number of hours by 60 and then add the minutes.

Example:
Input:
Hours: 5
Minutes: 37
Output: Total: 337 minutes.

Problem 4: Convert Minutes to Hours and Minutes

Description:
Write a C program that takes a total number of minutes as input and converts it into hours and minutes. The program should print the number of hours and remaining minutes.

Hint:
To get the number of hours, divide the total minutes by 60. To get the remaining minutes, take the modulus of the total minutes by 60.

Example:
Input: 546
Output: 9 Hours, 6 Minutes

Problem 5: Calculate the Sum of Three Numbers

Description:
Write a C program that takes three numbers as input on one line separated by commas, and calculates their sum. The program should then print the sum.

Hint:
Use the scanf function to read three numbers separated by commas. Then, sum the numbers and print the result.

Example:
Input: 5,10,15
Output: The sum of three numbers: 30