

CFCP Lab

Assignment 2

(Structure of a simple C program, Compilation and execution of a simple program)
(Variables and Expressions)

1. Enter two numbers and interchange their values using a third variable. If a and b are two variable you have taken, then the program should prompt and display:

Enter two numbers:

Values before interchange: a= value1 b=value2

Values after interchange: a= value2 b=value1

2. Write a program that prompts the user to input the radius of a circle. Find and display the area and perimeter of the circle. Use #define preprocessor directive for the declaration of constant macro PI (3.14159).

3. Write a program that converts temperature in degree Fahrenheit to degree Celsius.

Relevant formula:

$celsius = 5/9(fahrenheit - 32)$

Your program should interact with the user in this manner.

Fahrenheit to Celsius calculator:

Enter temperature in Fahrenheit:

Temperature in Celsius is:

4. Write a program that calculates mileage reimbursement for a sales person at a rate of Rs 18.50 per kilometer. Your program should interact with the user in this manner.

MILEAGE REIMBURSEMENT CALCULATOR:

Enter beginning odometer reading => 13505

Enter ending odometer reading => 13810

You traveled 305 kilometers. At Rs 18.50 per kilometers

Your reimbursement is Rs 5642.50

5. Write a program that computes the final investment value for a deposit, given the principal (p), rate of interest (r) in percentage and time (t) in years. The final investment is calculated based on the simple interest.