

Week 1: DAY 2 - Home Task

Introduction to C++ Language

Problem 1

Write a program that asks the user to enter a number **N** from the keyboard and prints its **square (N×N)** on the screen.

Sample Input: **N = 5**

Sample Output: **Square of 5 = 25**

Problem 2

Write a program that asks the user to enter **C** as a temperature in Celsius from keyboard and converts it to Fahrenheit **F** where **$F = (9.0/5 * C) + 32$**

Sample Input: **C = 12.3**

Sample Output: **F = 54.14**

Problem 3

Write a program that takes two integers **A** and **B** from the user and swap their values using a third temporary variable.

Sample Output: Before Swapping: **A = 45 B = 32**

 After Swapping: **A = 32 B = 45**

BONUS: Solve the same problem, swap the values of two integers **A** and **B** but **you are not allowed to use any extra variable other than A and B.**

Problem 4

Take **K** integers from the keyboard using a loop and print their average value on the screen.

Sample Input:

K=10

integers: 2 5 6 14 10 17 12 7 1

Sample Output: **Average Value: 7.4**

Problem 5

Write a program that first asks the user a number **K**. Then take **K** integers from the keyboard using a loop and print their sum on the screen.

Sample Input: **K = 6**

3 12 7 2 54 32

Sample Output: **110**

Problem 6

Write a program to print the first **K** (**K** should be asked from the user) even numbers using a loop.

Sample Input: **K = 10**

Sample Output: **First 10 even numbers: 2 4 6 8 10 12 14 16 18 20**

Problem 7

Write a program to print the multiples of 5 less than **K** (**K** should be asked from the user) using a loop.

Sample Input: **K = 100**

Sample Output: **Multiples of 5 less than 100:**

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95

Problem 8

Write a program to print all numbers between 1 and K in descending order (K should be asked from the user).

Sample Input: K = 10

Sample Output: 9 8 7 6 5 4 3 2

Problem 9

Write a program exactly as we did in the class and print the table in reverse order.

Problem 10

Write a program which first prints the table in ascending order then print the table in descending order.

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Happy Coding :)

Good luck