

### Aror University of Art, Architecture, Design & Heritage Sukkur.

# Department of Artificial Intelligence and Multimedia Gaming <u>Fundamentals of Programming (Fall-2023)</u>

### LAB No. 03

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#### Objective of Lab No. 03:

After performing lab 3, students will be able to:

- O Use escape sequences in a C++ Program
- o Take user input using cin
- o Use arithmetic Operators in a C++Program
- o Use arithmetic Operators to solve real-world problems
- o Understand the difference between Local and Global Variables

Task 01: Print out the following output by using appropriate escape sequences in your Program:

A.



В.

"quotes in quotes"

I've said "save your notebook," so let's do it!



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C.

"\\WARNING!///"

Task 02: Write a C++ program to convert temperature from Fahrenheit to Celsius degrees.

#### Example:

Input a value in Degree Fahrenheit: 212

Expected Output:

212.0 degree Fahrenheit is equal to 100.0 in Celsius

Formula: C = 5/9\*(F-32)

Task 03: Write a C++ program that takes a number in inches and converts it into meters

#### Example:

Input a value in inches: 212

Expected Output:

212.0 degree Fahrenheit is equal to 100.0 in Celsius

Formula: meter = Inches \* 0.0254

Task 04: Write a program in C++ to compute quotient and remainder. Sample Output:

Compute quotient and remainder:

Input the dividend: 25

Input the divisor: 3

The quotient of the division is: 8 The remainder of the division is: 1



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Task 05: Write a C++ program which takes 5 numbers as an input from the user, Compute their sum and average and display the output: Sample Output:

#### Compute quotient and remainder:

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Input the first\_number: 5 Input the second\_number: 6 Input the third\_number: 5 Input the fourth\_number: 4 Input the fifth\_number: 5

Sum of the numbers is: 25 Average of the numbers is: 5

Task 06: Write a C++ program to compute the Body Mass Index of a Person

#### **Sample Output:**

Enter your weight in kgs: 50

Enter your height in meters: 1.65

Your BMI is: 30.303

Formula for BMI: BMI = kg/m2