



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

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## Department of Artificial Intelligence and Multimedia Gaming

### Fundamentals of Programming (Fall-2025)

#### LAB No. 03

Prepared by: Abdul Haseeb Shaikh

#### **Objective of Lab No. 03:**

After performing lab 3, students will be able to:

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

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

A.

A screenshot of a terminal window titled 'C:\Users\7ibain\Desktop\aaa.cpp'. The window displays a dot matrix pattern forming a heart shape. Above the pattern, the text 'JASHNY AZADI MUBARIK' and 'TO ALL FRIENDS' is printed. The pattern itself is composed of numerous small dots and asterisks (\*).

B.



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"quotes in quotes"

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

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 :

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Input the dividend : 25

Input the divisor : 3

The quotient of the division is : 8

The remainder of the division is : 1

**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:  $BMI = \frac{kg}{m^2}$**