



كلية تكنولوجيا الصناعة والطاقة

Information Technology
Department
2nd Year



جامعة برج العرب التكنولوجية
BORG AL ARAB TECHNOLOGICAL UNIVERSITY

جامعة برج العرب
التكنولوجية

Course: Programming Essentials in C++
Semester: 1st term 2025/2026.

Lecturers: Dr. Nehal Elazaly, Dr. Ghada Fathy

Assignment 1: C++ programming

Answer the following questions:

Question1

Write a C++ program that:

1. Declares variables for your **name**, **age**, and **grade**.
2. Prints them using `cout` in a formatted way.

Example output:

Student Name: Mona

Age: 20

Grade: A

Question2

Write a program that:

1. Asks the user to enter their **name** and **age** using `cin`.
2. Prints a greeting message like:

Hello, Mona! You are 20 years old.

Question3

Create a program that:

1. Declares two integer variables **a** and **b**.
2. Reads their values from the user.
3. Displays the results of:
 - o Addition
 - o Subtraction
 - o Multiplication
 - o Division
 - o Modulus

Example Output:



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Enter two numbers: 8 3

Sum = 11

Difference = 5

Product = 24

Quotient = 2

Remainder = 2

Question4

Write a program that:

1. Starts with `int x = 10;`
2. Performs the following operations sequentially:

`x += 5;`

`x -= 3;`

`x *= 2;`

`x /= 4;`

`x %= 3;`

3. Prints the value of `x` after each operation.

Submission Requirements

- **File name:** Assignment1_your_name.docx or Pdf file contains snapshot from your IDE (code and Output)
- The program should compile and run without errors.
- Submit your file before the deadline.