

AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

Faculty of Science and Technology (FST)

Department of Computer Science (CS)

Course: Web Technologies

Lab Task 01: Introduction to PHP Basics

Instructions:

- 1. Complete the task using PHP only (no database, no session, no AJAX).**
- 2. Use proper PHP syntax and meaningful variable names.**
- 3. Save the file with .php extension.**
- 4. After completion, push the code to your GitHub repository.**

Scenario:

You are learning server-side scripting with PHP. As your first step, you need to create a simple PHP page that demonstrates how PHP handles variables, operations, control flow, arrays, and functions. This task will help you understand how PHP executes on the server and generates output dynamically.

Task Requirements:

Part A: PHP Variables and Output

1. Declare variables for:
 - Your name
 - Your student ID
 - Your department
2. Display the information using **echo** or **print** in a readable format.

Part B: Arithmetic and Type Casting

1. Declare two numeric variables.
2. Perform and display:
 - Addition
 - Subtraction
 - Multiplication
 - Division
3. Demonstrate type casting by converting:

- A string numeric value into an integer
- A floating-point number into an integer

Part C: Control Flow

1. Declare a variable named marks.
2. Use if-elseif-else to display:

- Grade A if marks ≥ 80
- Grade B if marks ≥ 65
- Grade C if marks ≥ 50
- Fail otherwise

Part D: Loop

1. Use a for loop to print numbers from **1 to 10**.
2. Use a while loop to print **even numbers between 1 and 20**.

Part E: Arrays

1. Create:
 - An indexed array containing at least 5 of your favorite programming languages.
 - An associative array containing:
 - Name
 - Email
 - City
2. Display all values using appropriate loops.

Part F: User-Defined Function

1. Create a function named calculateSquare(\$number).
2. The function should return the square of the given number.
3. Call the function and display the result.