National University
Of Computer & Emerging Sciences – CFD Campus

CL-1002 Programming Fundamentals

Lab - 1

Instructor:	Amna Waheed	**Email:**	amna.waheed@nu.edu.pk
Sections:	BCS-1B	**Due Date & Time:**	23-August-2024, 04:30 PM

Objectives:
- **Practice Algorithms and Pseudocode.**

Note: Carefully read the following instructions (Each instruction contains a weightage)
1. Use proper font family and font size of heading, subheading, and normal text.
2. First think about statement problems and then write/draw your logic on copy.
3. Write pseudocode on **Microsoft Word (save your file in .docs format)**.
4. Please submit your file with this name **24F1234_lab1**.
5. Do not copy from any source otherwise you will be penalized with negative marks.
6. Submit your lab on **Google Classroom**.

Problem: Write pseudocode / Algorithms of simple sequence programs.

1. Read and display a user's name.

2. Adding four numbers.

3. Finding the average of four numbers.

4. Calculate the area of a circle (formula: Area = π * radius^2).

5. Calculate the Interest of a Bank Deposit (formula Interest=Amount*Years*Rate/100)

6. Convert Distance from Kilometers to Miles (formula: Miles = Kilometers * 0.621371).

7. Compute the area of a triangle (formula: Area = ½ * base * height).

8. Write a program that takes the user's hourly pay rate and the number of hours worked for the week as input. Calculate their pay for the week, considering a tax deduction of 15%. Display the net pay after deducting taxes.

Good Luck 💀