

## PROGRAMMING FUNDAMENTALS

### ASSIGNMENT # 4 – CONDITIONS, LOOPS, ARRAYS, FUNCTIONS ....

TOTAL MARKS: 150

DUE DATE: 15TH NOVEMBER 2023

(ON/BEFORE 11:55 PM)

*The assignment includes all the programming concepts, learnt in this course i.e. Variables, Conditions, Loops, Functions, Arrays.*

Note:

- Plagiarism may cause an F grade in the course.

Problem 1: Create a menu which prompts the user for the choices in the table given below:

<b>String Manipulation</b>	String Length
	String Concatenation
	String Copy
	String Edit (replacing char(s) in a given string with given character)
<b>Calculator</b>	Addition
	Subtraction
	Multiplication
	Division
	Power
<b>Sorting an Array</b>	Bubble Sort
	Insertion Sort
	Selection Sort
<b>Searching in an Array</b>	Linear Search
	Binary Search
<b>Exit</b>	

#### Guide Lines:

- Create functions for each task.
- Create a user defined header file and place all the functions in it.
- Include your header file in the main program
- The main program should display the menu given above
- Depending on the choice opted by the user it should perform the said functionality.
- After performing the task the program should again come back to the main menu.

Good Luck 😊