

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:

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

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 ☺