National University of Computer and Emerging Sciences

Lab Manual

for

Programming Fundamentals

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Section	BSCS-N
Semester	Fall 2021

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Objectives:

In this lab we will learn

- 1- D Arrays
- Arrays with Functions

Problems:

Problem 1: (Marks 10)

Write a C++ program that does the following:

1) Main function: Declares an array alpha of 50 components of type double.
2) InitializarArr Function: Initialize the array so that the first 25 components are equal to the square of the index variable, and the last 25 components are equal to three times the index variable.
3) DisplayArr Function: Output the array so that 10 elements per line are printed

Problem 2: (Marks 5)

(Union of Sets) Use one-dimensional arrays to solve the following problem. Read in two sets(Arrays) of numbers, each having 10 numbers.

After reading all values, write a display function to display all the unique elements in the collection of both sets of numbers.

Problem 3: (Marks 5)

(Intersection of Sets) Use one-dimensional arrays to solve the following problem. Read in two sets of numbers, each having 10 numbers.

After reading all values, write a display function display the unique elements common to both sets of numbers.