**COMSATS University Islamabad**

**Lahore Campus**

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DEPARTMENT OF COMPUTER SCIENCE

Programming Fundamentals

LAB TASK (CSC103)

PREPARED BY

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**Doc File Format for labwork submission**

**Title Page:**

* Name,
* registration number,
* instructor’s name,
* Programme and Section

**Lab task Solution:**

* Problem statement
* Solution (C code) Please include proper comments in your code
* Screen shot of sample output

**Learning Objectives:** The objective of this exercise is to get you familiar with the collection of data of same type and manipulate it using arrays.

**OBS: For each exercise you need to write the C program and after running your program you need to show the screen results to the instructor.**

**Exercise 1:** Develop a program to input the marks of 10 (ten) different subjects of a student through the keyboard, find out the aggregate marks and percentage marks obtained by the student. Assume that the maximum marks that can be obtained by a student in each subject are 100.

**Exercise 2:** Write a program to declare an integer array of 10 elements.

1. Write a function getArray() to get array input from the user that will be used to initialize the first five (5) elements of the array by getting input from the user. The rest of the 5 entries would be set to zero (0).
2. Write a function FindEven() to find the total numbers of even numbers in the given array.
3. Write a function ModifyArray() to make the each array element to a multiple of four(04).
4. Write a function named ‘FindMax()’ that will find the largest element in the given array and return the largest element index no.

**Exercise 3:** Develop a program to calculate the basic salary of 5 employees where the hourly rate and the no. of hours worked by each employee are given by the user.

***Note:*** *Formula for calculating the basic salary = no. of hours worked \* hourly rate.*