**COMSATS University Islamabad, Abbottabad Campus**

**Department of Computer Science** 

**PF CSC-103**

**Assignment-4**

**Total Marks: 15**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Reg No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Introduction:**

This document outlines the assessment arrangements for the Assignment#4 for CSC-103 Programming Fudamentals. For this assignment the students are required to upload file on Portal. All the steps should be done properly.

Topics Covered: Structures, and Recursion.

**Note:**

* Late submission under any circumstances is not allowed.
* Copy from other students will directly lead to zero.

1. Write a program that find largest element in an array using recursion in c.
2. Write a structure to store the roll no., name, age (between 11 to 14) and address of students (more than 10). Store the information of the students.

1 - Write a function to print the names of all the students having age 14.

2 - Write another function to print the names of all the students having even roll no.

1. Write a program that takes string from user and print it in reverse using recursion in c.
2. Create a transcript as per the following requirements.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Semester: \_\_\_\_\_\_\_

Reg No: \_\_\_\_\_\_\_\_\_\_\_\_ Subject: \_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- |
| Quiz | Assignment | Mid Term | Final | Total Marks | Obtained Marks |
|  |  |  |  |  |  |
| GPA:\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |

1. Using array of structures to get the transcript for each student.
2. The GPA calculation should be as per CUI rules.
3. Enter some students’ data.
4. Student result can be searched.