

Coding Test 3 and 4  
**CSE 1112\_N – Structured Programming Laboratory**

**Total marks: 10 + 10**

**Time: 45+45 mins**

Set-1:

1. Declare a structure student with the following attributes:

[3]

- A string called name
- A string called id
- A 2-D float array called marks to hold four marks for three subjects as shown below:

	Att.	CT	Mid	Final
Subject1				
Subject2				
Subject3				

- A float called cgpa
2. Take ten students' information as input in an array struct student st[10]. Note that all inputs **must be taken from a file called "input.txt"** using file operations. A sample is shown below:

[3]

Alman  
011073054  
10 20 28 37  
10 18 30 35  
10 15 18 34  
3.8  
.....

3. Print the stored data as output in file "output.txt". Use the function **void print(struct student st[])** to print the data. A sample is shown below:

[4]

Student 1:  
Name: Alman  
Id: 011073054  
Subject 1 marks: 10 20 28 37  
Subject 2 marks: 10 18 30 35  
Subject 3 marks: 10 15 18 34  
CGPA: 3.8

## Set-2:

1. Suppose you are storing basic patient information for a hospital. Declare a structure patient with attributes name, id, height(inch), weight(kg), age. Write a program to [4]
  - Take five patients' information as input.
  - Print the patient id who has the maximum height.
2. Write a program that will print the elements of an array in reverse indexed order using recursion. [6]

Sample Input: 2 6 3 7 9 2 34 2 6

Sample Output: 6 2 34 2 9 7 3 6 2