

## EASTERN UNIVERSITY, SRI LANKA

FIRST YEAR FIRST SEMESTER EXAMINATION IN SCIENCE - 2004/2005niversity, S

EXTERNAL DEGREE PROGRAMME (May/June 2008)

EXTCS 152 - Practical on Introduction to Programme Design and Programming

Answer all questions

subject 3 marks

Time: 02 hours

```
Declare a structure for a student record consisting of the following fields:

student_name
student_id
subject_1_marks
subject_2_marks
```

(10 marks)

Write a program to keep records for 5 students.

• Read the necessary data from the keyboard for 5 students. Your program should handle the out of range of marks.

(15 marks)

• Write a function that calculates the average marks for each student

(15 marks)

• Write a function that prints the grade depend on the average value.

IF 0 ≤ average ≤ 40 PRINT "F"

IF  $40 < average \le 50$ 

PRINT "C"

IF 50 < avarage ≤ 70 PRINT "B"

IF 70 < average ≤ 100 PRINT "A"

(15 marks)

Display all students' details with average marks and the grade.

(10 marks)

• Write a function that returns the maximum average of all 5 students.

(15 marks)

• Write a function that returns the minimum average of all 5 students.

(15 marks)

Print maximum average and minimum average of all 5 students.

(5 marks)

## Example run of the program is illustrated below:

```
Enter student 1 name: Ravi
```

Enter student 1 Id: CS1

Enter Subject 1 marks of student 1:34

Enter Subject 2 marks of student 1:56

Enter Subject 3 marks of student 1:78

Enter student 2 name: Rangan

Enter student 2 Id: CS2

Enter Subject 1 marks of student 2:45

Enter Subject 2 marks of student 2:76

Enter student 3 name: Ramanan

Enter student 3 Id: CS3

Enter Subject 1 marks of student 3:45 Enter Subject 2 marks of student 3:95

Enter Subject 3 marks of student 3:56

Enter student 4 name: Rajan

Enter student 4 Id: CS4

Enter Subject 1 marks of student 4:76

Enter Subject 2 marks of student 4:95

Enter Subject 3 marks of student 4:69

Enter student 5 name: Ragavan

Enter student 5 Id: CS5

Enter Subject 1 marks of student 5:45

Enter Subject 2 marks of student 5:76

Enter Subject 3 marks of student 5:87

Name	ID	Marks 1	Marks 2	Marks 3	Average	Grade
Ravi	CS1	34	56	78	56	В
Rangan	CS2	45	76	98	73	A
Ramanan	CS3	45	95	56	65.333336	В
Rajan	CS4	76	95	69	80	A
Ragavan	CS5	45	76	87	69.333336	В

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Maximum average:80 Minimum average:56