## Assignment No. 1

To refresh your C programming skills, the following programming assignment is selected from the C programming prerequisite course that you have already taken.

Seven students are enrolled in a program at the end of which they have to take exams in two different subjects. They receive a diploma if they pass both subjects. The passing score in each subject is 50 or higher, and the scores are:

STUDENT NAME	STUDENT NO.	SUBJECT A	SUBJECT B
JOAN	1	70.5	85
TANIA	2	49	75
TOM	3	53	54
JEFF	4	80	49.5
SUSAN	5	89	90
KATHY	6	99	55
RAYMOND	7	22.5	75

The above information is saved in a data file that you need to create. Write a C program to read the above information from a data file and do the following steps:

- a) Calculate who obtained the diploma (Identity names, grades).
- b) Arrange subject A in ascending order (you should identify student name, student ID and subject B).
- c) Calculate the average and standard deviation of each subject.

YOUR PROGRAM SHOULD CONTAIN PROGRAMMING MODULES (FUNCTIONS) and have a easy to use interface.

d) The above given data should be read from an external file. Also, your output should be displayed on the screen as well as copied to an external file

Note: Your program should be properly commented and you need to have a typed up cover page, indicating Course, Program No., Your Name, and the actual date submitted.

You can use C running on your laptop or use one the University machines. Whichever machine you use, you should be able to demo it to me using your laptop.