Assignment Lec (12)

(1) C function to sort an array using shell sorting, run the program and take 2 input arrays from user and sort them independently, pass the sorted arrays to another function that merges them into a big sorted array.

(2) Write a program that allows the user to enter students' names followed by their test scores and outputs the following information (assume that maximum number of students is 50:

a. The average score.

b. Names of all students whose test scores are below the average, with an appropriate message.

c. Highest test score and the name of all students having the highest score

```
Enter student score: 50
More data? -1 to stop, others to continue: 0
Enter student name: mohamed
Enter student score: 60
More data? -1 to stop, others to continue: -1

================REPORT===================
Student Name      Score
------------      -----
ali               50.00
mohamed           60.00

The number of student is 2
The average score for this class is 55.00

=================================================
Below The Average Students! Work Harder!
=================================================

Student Name      Score
------------      -----
ali               50.00

=================================================
Top Scorer Student! Congratulation!
=================================================

Student Name      Score
------------      -----
mohamed           60.00
```