Lab 06

Sorting of Numbers in Assembly Language

Lab Tasks

1. **Debug the examples 3.3 (a) and 3.3 (b) in "afd" and observe the output. Explain in a few words what difference you observe in both methods.**

2. **Repeat example 3.3(b) with an alternative jump as a replacement for "jbe" in the code. Refer to table under topic 3.2 in your book handouts to pick the appropriate "jump" instruction.**

3. Repeat the above example 3.3(b) for sorting in descending order. Increase the number of total values (here you have total 4 values/numbers) on your own. Try two different conditions (jumps) to create your logic for the said task. Refer to the table under topic 3.2 in your book handouts to pick out the appropriate/suitable condition for your logic.

Steps to be followed for all the tasks
a. Take different numbers from the ones given in the example. All of you should have different values.
b. Take a screenshot of the output showing each "pass" while swapping is done. Also, take a screenshot of the DOS Box with all the commands. Your screenshots must include the status of the flags involved.
c. Paste all the screenshots with a caption (single line) in a document file.

Upload ".asm file" , ".lst" and the document in pdf format with all the screenshots taken.
Note: Follow the same format and instructions for creating and uploading the document.