**Assignment on Array Operations**

The program will prompt the user as follows:

**Choose**

1. **For entry of a list**
2. **For printing the list**
3. **For sorting the list**
4. **For searching a number**
5. **For appending a number**
6. **For inserting a number**
7. **For deleting a number**
8. **For exit**

**Enter your option:**

**----------------------------------------------------------**

Description:

* Searching, inserting and deleting will have two alternatives depending on whether the list is sorted or unsorted at the current moment. The sorted or unsorted nature of the list can be determined by using a **sortFlag** variable as instructed in the class.
* Note that, appending means inserting at the end of the list, which is basically similar to unsorted insert.
* Keep in mind that, appending may result into an unsorted list, handle your **sortFlag** accordingly in that case.
* The above prompt will continue to show after each operation until exit option is chosen.
* Be careful in handling critical cases, like printing the list before entry of a list. You will also need to monitor the current length of the array after each operation.

Submission:

You will have to submit this assignment **in moodle before your next sessional class on April 12, 2017**. Submission window will be created before submission**. Pay attention to moodle notices for the deadline of submission.**

**You need to submit only your code file in .c extension. Name the code file with your student id (1605XXX.c).**