King Fahd University of Petroleum & Minerals College of Computer Science and Engineering Information and Computer Science Department ICS 202 - Data Structures

Lab 01: Review

Create a class call it MyArrayList, that works as a dynamic array

```
The class has the following attributes
       - array (default length = 10)
       -last element index
and the following methods
       -add(element):
              Adds the element after the last added element.
              If the array is full, it will use a bigger array.
       -get(index):
              Returns the element at the passed index
       -delete(index):
              Removes the element at the passed index
       -size():
              Returns the number of elements in MyArrayList
```

Notes:

- Use generics to make your list generic with any objects
- MyArrayList is indexing start from 0.
- Test delete followed by get throughly.

Then create a driver-class/main-method to test your ArrayList

Sample driver-class/main-method:

```
MyArrayList<Integer> list = new MyArrayList<Integer>();
for(int i = 0; i < 20; i++){
     list.add(new Integer(i));
System.out.println(list.size());
System.out.println(list.get(10));
list.delete(10);
System.out.println(list.size());
System.out.println(list.get(10));
```

Sample Output: