

OBJECT ORIENTED PROGRAMMING LAB

EXRECISE SET 6

INTERFACES, ARRAYLISTS, OBJECT CLASS

1. Design a **stack interface** and implement it using:
 - a. array
 - b. java.util.Array
 - c. java.util.ArrayList
2. Design a **queue interface** and implement it using:
 - a. array
 - b. java.util.Array
 - c. java.util.ArrayList
3. Design a **priority queue interface** and implement it.
4. Write a program to perform string operations using ArrayList. Write functions for the following
 - a. Append – add at end
 - b. Insert – add at particular index
 - c. Search
 - d. List all string starts with given letter
5. Design and implement a generic stack class using **Object** array and test it for various types, viz. Integer, Character, Double etc.