Name: Pallavi Chaudhary
Student Code: AF0316472
Batch code: ANP-C6008

Lab Assignment 6

1) Write a program to convert LinkedList to ArrayList?

```
Code: -
//1) Write a program to convert LinkedList to ArrayList?
package Assignment6;
import java.util.ArrayList;
import java.util.LinkedList; // Importing Linkedlist package
public class Program1 { // public class
    public static void main(String[] args) { // main method
         LinkedList<Integer> 1 = new LinkedList<Integer>();
// creating object of LinkedList that is 1
         1.add(5); // adding values inside the linked list by
using add method
         l.add(15); // adding values inside the linked list
by using add method
         1.add(75); // adding values inside the linked list
by using add method
         1.add(35); // adding values inside the linked list
by using add method
         System.out.println(l); // printing the list
         ArrayList<Integer> al = new ArrayList<Integer>(1);
// Converting LinkedList into ArrayList
    =======;;
         System.out.println("Printing list after converting
linkedlist into arraylist");
         System.out.println(al); // printing the array list
    }
}
Output: -
```

2) Write a program using Vector to store students information id's,names,Qualification.

```
Code: -
//2) Write a program using Vector to store students
information id's, names, Qualification.
package Assignment6;
import java.util.Vector;
public class Program2 {
     public static void main(String[] args) {
Vector<Integer> id = new Vector<Integer>();
Vector<String> name = new Vector<String>();
Vector<String> Q = new Vector<String>();
System.out.println("Students information");
id.add(1);
id.add(2);
id.add(3);
id.add(4);
id.add(5);
name.add("Rahul");
name.add("Ram");
name.add("Raj");
name.add("Raja");
name.add("Ramesh");
Q.add("Graduate");
Q.add("Graduate");
Q.add("Graduate");
Q.add("Graduate");
Q.add("Graduate");
System.out.println("Id : "+id+"\nName :
"+name+"\nQualification : "+Q);
}
```

```
Students information
Id: [1, 2, 3, 4, 5]
Name : [Rahul, Ram, Raj, Raja, Ramesh]
Qualification : [Graduate, Graduate, Graduate, Graduate]
3) Wirte a program using Treeset for storing State names.
Note: Read data from User.
Code: -
//3) Write a program using Treeset for storing State names.
//Note: Read data from User .
package Assignment6;
import java.util.TreeSet;
import java.util.Scanner;
public class Program3 {
      public static void main(String[] args) {
             TreeSet<String> State = new TreeSet<String>(); // TreeSet State which
has the generic 'String'
             Scanner S = new Scanner(System.in); // S-> Scanner for taking input
from the user
             int size; // size of the array
             System.out.println("Enter the size of array: ");
             size = S.nextInt(); // taking size input of the array
```

```
String[] a = \text{new String[size]}; // a \rightarrow \text{array}, 'a' is string array which takes
the input of states name
              for (int counter = 0; counter < size; counter++) {
                      System.out.println("Enter the Names of States: " + (counter + 1));
// printing statement to enter the names
                                                           // of states
                      a[counter] = S.next(); // array a will take the input
                      State.add(a[counter]); // states name are stored in array 'a' is
now added to TreeSet State
                      System.out.println("Following are some of the States of India: \n"
+ State); // printing the Names of
                                                                                 // states
                                                                                 // given
by the user
              }
              S.close();
       }
}
Output: -
```

```
Enter the size of array :
Enter the Names of States: 1
Punjab
Following are some of the States of India:
[Punjab]
Enter the Names of States: 2
Haryana
Following are some of the States of India:
[Haryana, Punjab]
Enter the Names of States : 3
Delhi
Following are some of the States of India:
[Delhi, Haryana, Punjab]
Enter the Names of States: 4
Bihar
Following are some of the States of India:
[Bihar, Delhi, Haryana, Punjab]
Enter the Names of States : 5
Following are some of the States of India:
[Bihar, Delhi, Haryana, Mumbai, Punjab]
```