

Q.1) Write a program to convert LinkedList to ArrayList?

```
package Packgetype;
```

```
import java.util.ArrayList;
```

```
import java.util.LinkedList;
```

```
import java.util.List;
```

```
public class Quiz6Q1 {
```

```
    //Q.1) Write a program to convert LinkedList to ArrayList?
```

```
    public static void main(String[] args) {
```

```
        //The LinkedList IL parameterized string constructor is created to add elements in linked list
```

```
        LinkedList<String> IL = new LinkedList<String>();
```

```
        IL.add("January");
```

```
        IL.add("February");
```

```
        IL.add("March");
```

```
        IL.add("April");
```

```
        IL.add("May");
```

```
        IL.add("June");
```

```
        IL.add("July");
```

```
        IL.add("August");
```

```
        IL.add("September");
```

```
        IL.add("October");
```

```
        IL.add("November");
```

```
        IL.add("December");
```

```
        //The ArrayList arrL parameterized string constructor initialized using LinkedList elements
```

```
        List<String> arrL = new ArrayList<String>(IL);
```

```
        System.out.println("After conversion of LinkedList elements in ArrayList elements are: ");
```

```
        //For loop used to print Linked List elements in ArrayList
```

```

for (Object i : arrL) {
    System.out.println(i);
}
}
}

```

Output:

```

<terminated> Quiz6Q1 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (01-Sep-2023, 10:17:01 pm - 10:17:02 pm) [pid: 13676]
After conversion of LinkedList elements in ArrayList elements are:
January
February
March
April
May
June
July
August
September
October
November
December

```

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

```

package Packgetype;
import java.util.Vector;
public class Quiz6Q2 {
    //Q.2) Write a program using Vector to store students information
    id's,names,Qualification.

    public static void main (String[] args) {

        Vector id = new Vector();        // It creates a default vector for student id
        id.add(123);                      // Add id of student

        Vector name = new Vector();
        name.add("Diksha");              // add name of student

        Vector q = new Vector();
        q.add("BCA");                    //add qualification of student

        System.out.println("Student id : " + id);
        System.out.println("Student name : " + name);
        System.out.println("Student qualification : " + q);
    }
}

```

Output:

Student id : [123]

Student name : [Diksha]

Student qualification : [BCA]

Writable

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Q.3)Write a program using TreeSet for storing State names.

```
package Packgetype;
import java.util.TreeSet;
import java.util.Iterator;
public class Quiz6Q3 {

//Q.3) Write a program using TreeSet for storing State names.
    public static void main(String args[]){
        //Creating treeSet object for string

        TreeSet<String> State=new TreeSet<String>();
        //List the names of states names

        State.add("Uttar Pradesh");
        State.add("Andhra pradesh");
        State.add("Maharashtra");
        State.add("Madhya pradesh");
        State.add("Delhi");

        System.out.println("States name without traversing : "+State);
        //After Traversing States name

        System.out.println("-----\n");
        System.out.println("States names after applying traversing :");

        Iterator<String> itr=State.iterator();
        while(itr.hasNext()){
            System.out.println(itr.next());
        }

    }
}
```

Output:

<terminated> Quiz6Q3 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (01-Sep-2023, 10:21:05 pm - 10:21:05 pm) [pid: 5916]

States name without traversing : [Andhra pradesh, Delhi, Madhya pradesh, Maharashtra, Uttar Pradesh]

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States names after applying traversing :

Andhra pradesh

Delhi

Madhya pradesh

Maharashtra

Uttar Pradesh