**Java Data Structure –L1-Assignment**

1. **Task to find whether the Vector contain all List Elements (Objects) :**

**package** Sample;

**import** java.util.Vector;

**public** **class** MyElementCheck {

**public** **static** **void** main(String a[]){

Vector<String> vect=**new** Vector<String>();

vect.add("First");

vect.add("Second");

vect.add("Third");

vect.add("Random");

System.*out*.println("Vector Elements:" +vect);

}

}

**Output:**

Vector Elements:[First, Second, Third, Random]

1. **Task to copy elements from Vector to an Array :**

**package** Sample;

**import** java.util.ArrayList;

**import** java.util.Collections;

**import** java.util.Enumeration;

**import** java.util.Iterator;

**import** java.util.List;

**import** java.util.ArrayList;

**import** java.util.Collections;

**import** java.util.Vector;

**public** **class** MyElementCheck {

**public** **static** **void** main(String a[]){

Vector<String> vect=**new** Vector<String>();

vect.add("First");

vect.add("Second");

vect.add("Third");

vect.add("Random");

System.*out*.println("Vector Elements:" +vect);

List<String> arrayList=**new** ArrayList<String>();

arrayList.add("1");

arrayList.add("2");

arrayList.add("3");

arrayList.add("4");

Iterator itr=arrayList.iterator();

**while**(itr.hasNext()){

System.*out*.println("Array Elements:" +itr.next());

}

Collections.*copy*(vect,arrayList);

System.*out*.println("After copying Vector Elements" +vect);

}

}

**Output:**

Vector Elements:[First, Second, Third, Random]

Array Elements:1

Array Elements:2

Array Elements:3

Array Elements:4

After copying Vector Elements[1, 2, 3, 4]

1. **Task to learn LinkedList push(), pop() operations:**

**package** Sample;

**import** java.util.LinkedList;

**public** **class** MyPushPopOpr {

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

LinkedList<String> arrl = **new** LinkedList<String>();

arrl.add("First");

arrl.add("Second");

arrl.add("Third");

arrl.add("Random");

System.*out*.println("Elements in LinkedList" +arrl);

arrl.push("second Element");

arrl.push("first Element");

System.*out*.println("After pushing:"+arrl);

System.*out*.println("Element Popped:"+arrl.pop());

System.*out*.println("LinkedList After Popping:"+arrl);

}

}

**Output:**

Elements in LinkedList[First, Second, Third, Random]

After pushing:[first Element, second Element, First, Second, Third, Random]

Element Popped:first Element

LinkedList After Popping:[second Element, First, Second, Third, Random]