

//copy one arraylist into another arraylist.

package com.arraylist;

import java.util.ArrayList;

import java.util.Iterator;

public class ArrayListDemo1 {

public static void main(String[] args) {

 ArrayList<Integer> al = **new** ArrayList<Integer>();
 al.add(10); // 0th index
 al.add(20); // 1st index
 al.add(30); // 2nd index

 ArrayList<Integer> al2 = **new** ArrayList<Integer>();
 al2.add(40); // 0th index
 al2.add(50); // 1st index
 al2.add(60); // 2nd index

 al.addAll(al2);
 System.**out**.println("copy arraylist is=" + al);

 Iterator<Integer> itr = al.iterator();
 while (itr.hasNext()) {
 System.**out**.println(itr.next());
 }

 }
}

//Design the generic arraylist for Integer type only

package com.arraylist;

import java.util.ArrayList;

public class ArrayListDemo2 {

public static void main(String[] args) {

 ArrayList<Integer> al= **new** ArrayList<Integer>();
 al.add(10);
 al.add(20);
 al.add(30);

```

        for(int i: al) {
            System.out.println(""+i);
        }
    }
}

```

//Design the generic arraylist for String type only
package com.arraylist;

import java.util.ArrayList;
public class ArrayListDemo3 {

public static void main(String[] args) {

```

    ArrayList<String> al= new ArrayList<String>();
    al.add("10");
    al.add("20");
    al.add("30");

    for(String str: al) {
        System.out.println(""+str);
    }
}

```

//program for demonstrate the arraylist method
package com.arraylist;

import java.util.ArrayList;
public class ArrayListDemo4 {

public static void main(String[] args) {

```

    ArrayList al= new ArrayList();
    al.add(10);
    al.add(20);
    al.add(50);
    al.add(2,75);
    System.out.println("size of list is="+al.size());
    System.out.println("List="+al);
    System.out.println(al.contains(80));
}

```

```
}
```

//how to sort arraylist

```
package com.arraylist;
```

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

```
import java.util.Collections;
```

```
public class ArrayListDemo6 {
```

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

```
        ArrayList<String> al= new ArrayList<String>();
```

```
        al.add("shubham");
```

```
        al.add("rahul");
```

```
        al.add("laxman");
```

```
        al.add("snehal");
```

```
        al.add("kshitija");
```

```
        al.add("yogesh");
```

```
        al.add("piyush");
```

```
        al.add("pushkar");
```

```
        al.add("ajay");
```

```
        Collections.sort(al);
```

```
        System.out.println(al);
```

```
    }
```

```
}
```

//merge two arraylist into one arraylist

```
package com.arraylist;
```

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

```
public class ArrayListDemo7 {
```

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

```
        ArrayList<Integer> al=new ArrayList<Integer>();
```

```

        al.add(10);
        al.add(20);
        al.add(30);

        ArrayList<Integer> al1=new ArrayList<Integer>();
        al1.add(40);
        al1.add(50);
        al1.add(60);

        ArrayList<Integer> al2=new ArrayList<Integer>();
        al2.addAll(al);
        al2.addAll(al1);
        System.out.println("Merge list element is>>" +al2);

    }
}
-----

```

//create the arraylist for user defined type for employee

```

package com.arraylist;

import java.util.*;
public class ArrayListDemo8 {

    public static void main(String[] args) {

        ArrayList<Employee> arrayList = new ArrayList<Employee>();

        arrayList.add(new Employee(20, "ram", "25000"));
        arrayList.add(new Employee(30, "sohan", "15000"));

        //by using iterator
        Iterator<Employee> itr = arrayList.iterator();

        while (itr.hasNext()) {
            System.out.println("employee list>>" + itr.next());
        }

        //by using for each loop
        for(Employee e1: arrayList) {
            System.out.println("data is>>" +e1);
        }
    }
}

```

```
}  
}
```

```
package com.arraylist;
```

```
public class Employee {
```

```
    // id, name, salary.
```

```
    int id;  
    String name;  
    String salary;
```

```
    public Employee(int id, String name, String salary) {  
        super();  
        this.id = id;  
        this.name = name;  
        this.salary = salary;  
    }
```

```
    public int getId() {  
        return id;  
    }
```

```
    public void setId(int id) {  
        this.id = id;  
    }
```

```
    public String getName() {  
        return name;  
    }
```

```
    public void setName(String name) {  
        this.name = name;  
    }
```

```
    public String getSalary() {  
        return salary;  
    }
```

```
    public void setSalary(String salary) {  
        this.salary = salary;  
    }
```

```

    }

    @Override
    public String toString() {
        return "Employee [id=" + id + ", name=" + name + ", salary="
+ salary + "]";
    }
}

```

// Design the method to return the list of Employees in arraylist.

```

public List<Employee> getEmployeeList() {

    List<Employee> list = new ArrayList<Employee>();
    list.add(new Employee("Jeevan", "Kulkarni"));
    list.add(new Employee("Ram", "Pawar"));
    return list;
}

```

//Design the method to return arraylist to method

```
package com.arraylist;
```

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

```

/*
 * public Employee addEmployee(){
 *
 *     Employee emp= new Employee();
 *     return emp;
 * }
 */

```

```
public class EmployeeList {
```

```
    public ArrayList getEmployeeedata() {
```

```

        ArrayList arrayList= new ArrayList();
        arrayList.add(10);
        arrayList.add(20);
        arrayList.add(30);
        return arrayList;
    }
}

```

```
}  
}
```

```
package com.arraylist;
```

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

```
/*how insert the elements into list for type string and integer and iterate  
 * by using for each loop  
 * */
```

```
public class ArrayListDemo4 {
```

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

```
        ArrayList arrayList= new ArrayList();
```

```
        arrayList.add(50);
```

```
        arrayList.add(10);
```

```
        arrayList.add("ram");
```

```
        for(Object o: arrayList) {  
            System.out.println(o);  
        }
```

```
    }  
}
```

```
//Using Lambda Function to Iterate
```

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

```
public class ArrayListDemo {
```

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

```
        ArrayList<String> list = new ArrayList<String>();
```

```
        list.add("pune");
```

```
        list.add("mumbai");
```

```
        list.add("bangalore");
```

```
        list.forEach(arrayList ->
```

```
            System.out.println(arrayList));  
    }
```

```
}
```