

//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());
```

```
        }
```

```
    }
```

```
}
```

```
>>
```

```
copy arraylist is=[10, 20, 30, 40, 50, 60]
```

```
10
```

```
20
```

```
30
```

```
40
```

```
50
```

```
60
```



//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);

 }

 }

}

>>

10

20

30

//Design the generic arraylist for String type only

package com.arraylist;

import java.util.ArrayList;

public class ArrayListDemo3 {

1

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);

 }



```
}  
}  
>>  
10  
20  
30
```

//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));

 }

}

>>

size of list is=4

List=[10, 20, 75, 50]

false

//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);
}
}
>>
[ajay, kshitija, laxman, piyush, pushkar, rahul, shubham, snehal, yogesh]

```

//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);

    }
}
>>
Merge list element is>>[10, 20, 30, 40, 50, 60]

```

//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 + "];"
    }
}
>>
employee list>>Employee [id=20, name=ram, salary=25000]
employee list>>Employee [id=30, name=sohan, salary=15000]

```

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

```

public class TestMain {

    public List<Employee> getEmployeeList() {

        List<Employee> list = new ArrayList<Employee>();
        list.add(new Employee(11,"Rahul", "pune"));
        list.add(new Employee(21,"Ram", "mumbai"));
        return list;
    }

    public static void main(String[] args) {
        TestMain tm=new TestMain();
        System.out.println(tm.getEmployeeList());
    }
}

```



>>

[Employee [id=11, name=Rahul, salary=pune], Employee [id=21, name=Ram, salary=mumbai]]

//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);
    }
}
}
>>
50
10
ram

```

//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);
    }
}

```

->

```

}
>>>
pune
mumbai
bangalore

```

