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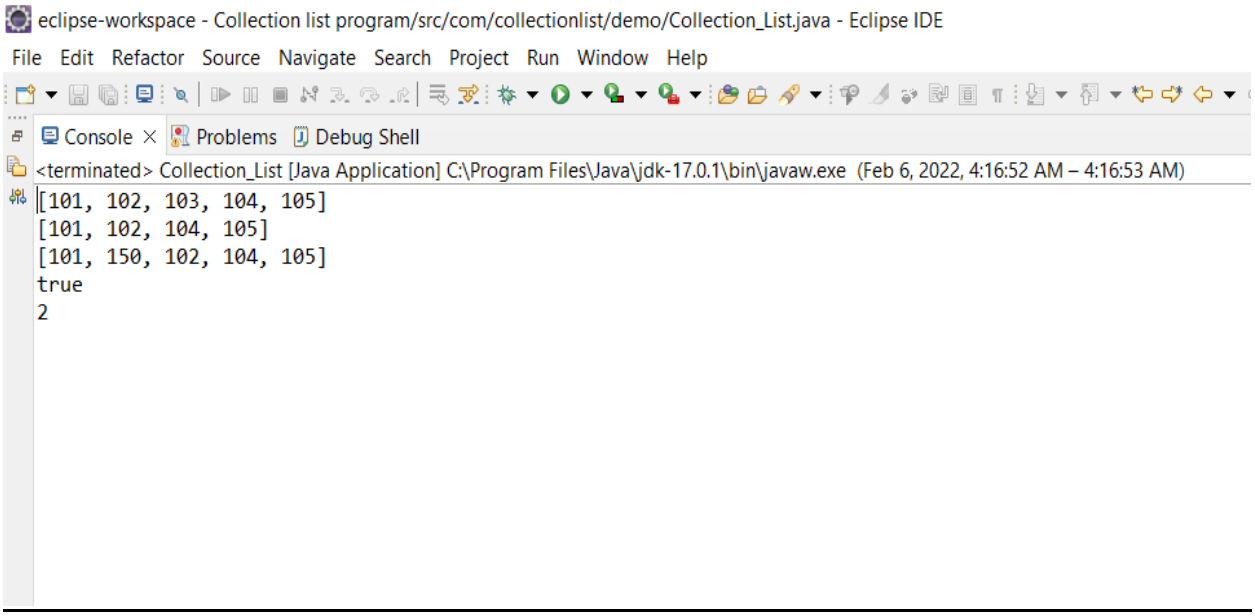
Collection Program

1)Collection List:

```
package com.collectionlist.demo;

import java.util.ArrayList;
import java.util.List;

public class Collection_List {

public static void main(String[] args) {
List<Integer>list=new ArrayList<Integer>();
list.add(101);
list.add(102);
list.add(103);
list.add(104);
list.add(105);
System.out.println(list);
list.remove(2);
System.out.println(list);
list.add(1,150);
System.out.println(list);
System.out.println(list.contains(104));
System.out.println(list.indexOf(102));


}

}
```

Output:



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2. Collection Add List PGM

Employee Class

```
public class Employee {
private int empid;
private String empName;
private float empSal;
public int getEmpid()
{
return empid;
}
public void setEmpid(int empid) {
this.empid=empid;
}
public String  getEmpName() {
return empName;
}
public void setEmpName( String empName) {
this.empName = empName;
}
public float getEmpSal() {
return empSal;
```

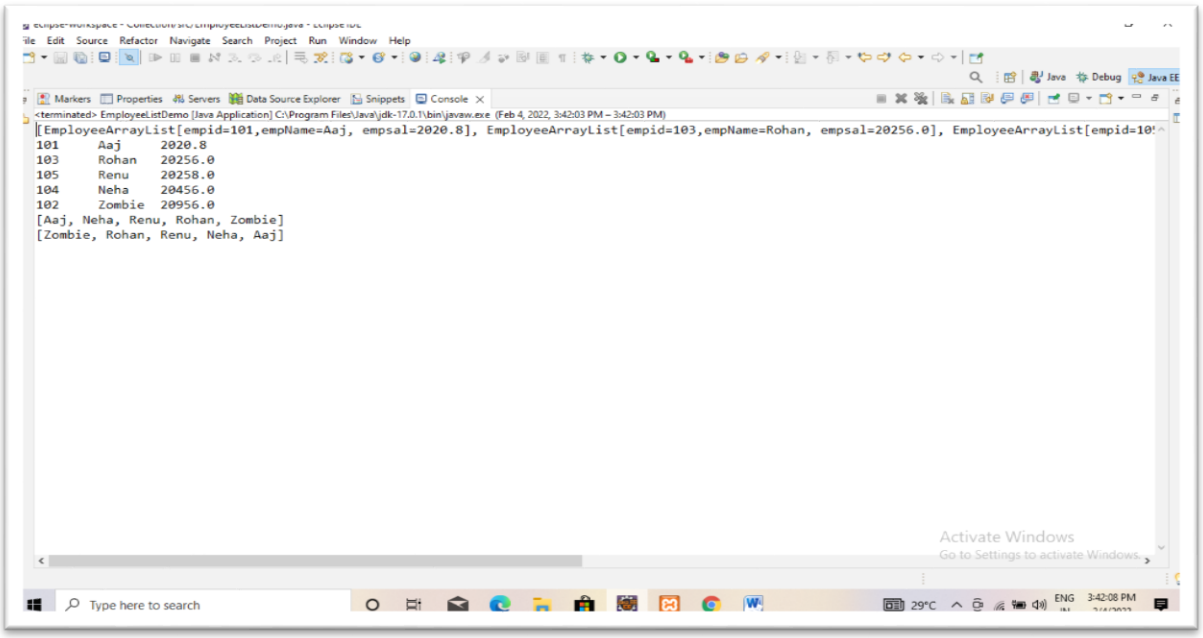
```
}
public Employee(int empid,String empName,float empSal) {
super();
this.empid=empid;
this.empName=empName;
this.empSal=empSal;

}
public String toString()
{
return  "EmployeeArrayList[empid="+empid+",empName="+empName+",
empsal="+empSal+"]";
}
}
```

EmployeeListDemo.Main.class

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.Iterator;
import java.util.List;

public class EmployeeListDemo {

public static void main(String[] args) {
// TODO Auto-generated method stub
List<Employee>employee=new ArrayList<Employee>();
Employee Emp=new Employee(101,"Aaj",2020.80f);
employee.add(Emp);
employee.add(new Employee(103,"Rohan",20256.f));
employee.add(new Employee(105,"Renu",20258.f));
employee.add(new Employee(104,"Neha",20456.f));
employee.add(new Employee(102,"Zombie",20956.f));
System.out.println(employee);
Iterator it=employee.listIterator();
while(it.hasNext()) {
Employee emp=(Employee)it.next();
System.out.println(emp.getEmpid()+"\t"+emp.getEmpName()+"\t"+emp.getEmpSal());
}
ArrayList<String>al=new ArrayList<String>();
for(int i=0;i<employee.size();i++) {
Employee emp= employee.get(i);
String name=emp.getEmpName();
al.add(name);
```

```
}
Collections.sort(al);
System.out.println(al);
Collections.reverse(al);
System.out.println(al);
}

}
```

Output



3. Collection Queue.

```
package com.collection.employeelist;

import java.util.ArrayDeque;

public class DemoQueue {
public static void main(String[] args) {
ArrayDeque<String> arrayDeque = new ArrayDeque<String>();
arrayDeque.push("Ajay");
arrayDeque.push("Akash");
arrayDeque.push("Rahul");
arrayDeque.push("Ram");
```

```
System.out.println(arrayDeque);
arrayDeque.pop();
System.out.println(arrayDeque);
arrayDeque.pop();
System.out.println(arrayDeque);

}

}
```

Output: