```
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Course Name :- Java Full Stack Development

Ref. No. SCS/CG/2021/025

1.Collection List:

Code:

```
Import java.util.ArrayList;
Import java.util.List;
public class collection fw {
     public static void main(String[] args) {
          // TODO Auto-generated method stub
          List<Integer>list=newArrayList<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(1,200);
          System.out.println(list);
          System.out.println(list.contains(103));
          System.out.println(list.index0f(105));
     }
}
```

```
Seclipse-workspace - Collection/src/collection fwjava - Eclipse IDE

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2. Collection Add List PGM

Source Code:

```
Public class Employee {
     private int empid;
     private String empName;
     private float empSal;
     public int getEmpid()
          return empid;
     public void setEmpid(intempid) {
          this.empid=empid;
     }
     public String getEmpName() {
          return empName;
     public void setEmpName( String empName) {
          this.empName = empName;
     public float getEmpSal() {
          returnempSal;
     public Employee(intempid,StringempName,floatempSal) {
          super();
          this.empid=empid;
          this.empName=empName;
          this.empSal=empSal;
     public String toString()
{
return"EmployeeArrayList[empid="+empid+",empName="+empName+",
empsal="+empSal+"]";
```

```
}
               }
Second Class to invoke methods
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=newArrayList<Employee>();
                             Employee Emp=newEmployee(101, "Aai", 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);
Iteratorit=employee.listIterator();
while(it.hasNext()) {
               Employee emp=(Employee)it.next();
               System.out.println(emp.getEmpid()+"\t"+emp.getEmpName()+"\
t"+emp.getEmpSal());
ArrayList<String>al=newArrayList<String>();
for(inti=0;i<employee.size();i++) {</pre>
               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);
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}
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                      terminated: EmployeeLinDemo [Java Application] CnProgram Files/Java/jdk-17.0.11bin/javaw.exe (Feb 4, 2022, 342-03 PM - 342-03 PM)

[[EmployeeArrayList[empid=101, empName=Aaj, empsal=2020.8]], EmployeeArrayList[empid=103, empName=Rohan, empsal=20256.0]], EmployeeArrayList[empid=101, empName=Rohan, empsal=20256
                               Neha 20456.0
Zombie 20956.0
                       [Aaj, Neha, Renu, Rohan, Zombie]
[Zombie, Rohan, Renu, Neha, Aaj]
```



3. Collection Queue

```
Source Code:
```

```
package EmployeeListDemo;
import java.util.ArrayDeque;
public class QueueDemo {
     public static void main(String[] args) {
          ArrayDeque<String>arrayDeque=newArrayDeque<String>();
          arrayDeque.push("Rohan");
          arrayDeque.push("Raj");
          arrayDeque.push("Ravi");
          arrayDeque.push("Kunal");
          System.out.println(arrayDeque);
          arrayDeque.pop();
          System.out.println(arrayDeque);
          arrayDeque.pop();
          System.out.println(arrayDeque);
     }
}
```

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