## **Task 8: Collections**

1. To Create a new model named **CourierCompanyCollection** in entity package replacing the Array of Objects with List to accommodate dynamic updates in the CourierCompany class.

## **CODE:**

```
package Entities;
import java.util.ArrayList;
import java.util.List;
public class CourierCompanyCollection {
  List<CourierCompany> list=new ArrayList<>();
  public CourierCompanyCollection() {
    this.list = new ArrayList<>();
  }
  public List<CourierCompany> getList() {
    return list;
  public void setList(List<CourierCompany> list) {
    this.list = list;
  public void addCourier(CourierCompany courierObj)
    list.add(courierObj);
  public void removeCourierCompany(CourierCompany company) {
    list.remove(company);
```

```
@Override
public String toString() {
  return "CourierCompanyCollection{" +
       "list=" + list +
       '}';
}}
```

2. Create a new implementation class

CourierUserServiceCollectionImpl class in package dao which implements ICourierUserService interface which holds a variable named companyObj of type CourierCompanyCollection

## CODE:

```
package DAO;
import Entities. Courier;
import Entities.CourierCompanyCollection;
import Interface.ICourierUserService;
import java.util.HashMap;
import java.util.Map;
public class CourierUserServiceCollectionImpl implements
ICourierUserService {
  private CourierCompanyCollection courierObj;
  public
CourierUserServiceCollectionImpl(CourierCompanyCollection
courierObj) {
    this.courierObj = courierObj;
  }
  public CourierCompanyCollection getCourierObj() {
    return courierObj;
  }
```

```
public void setCourierObj(CourierCompanyCollection courierObj)
{
     this.courierObj = courierObj;
  @Override
  public String placeOrder(Courier courier) {
     return "";
  @Override
  public String getOrderStatus(Courier courier) {
     return "";
  }
  @Override
  public boolean cancelOrder(Courier courier, String
trackingNumber) {
     return false;
  @Override
  public Courier[] getAssignedOrder(Courier courierobj, int empid) {
     return new Courier[0];
  }
  // This is the implementation for Collection type
  //In CourierUserService Class implementation is done based on arrays
  @Override
  public Map<Integer, Courier> getAssignedOrderMap(Courier
courierobj, int empid) {
```

```
Map<Integer,Courier> assignedcouriers=new HashMap<>();
assignedcouriers.put(empid,courierobj);
return assigned couriers;
```