## Assignment on Has-A relation

ABC Tech has to develop an application where user can choose a policy from various policies available in the portal.

User can show the details of selected Policy

### **Entity Class Diagram**

```
public class Address {
       public class User { 5 usages
                                                       String houseName;
                                                       String street; no:
5
           String username; no usages
                                                       String city; nousa
           String password; nousages
                                                       String state; nous
7
           String fullName; no usages
8
           int age; no usages
           Address address; no usages
10
                                                  3
                                                       public class Policy { 6 usages
11
           Policy policy; nousages
                                                            private int pid; no usages
12
                                     1
                                                            private String policyName;
13
                                                            private int premiumAmount;
                                                 6
14
      }
                                                 7
                                                       }
```

#### Create Two Service Classes which holds the Data

### So user don't need to code for Admin role

```
5
      public class UserService { no usages
6
7
          List<User> allUsers = new ArrayList<User>(); no usage
8
9
          UserService() { nousages
              /* Code to initilize allusers */
10
11
              // Hint : Same as PolicyService
12
          }
13
       // getter & setter of allUsers
14
15
16
```

```
3
      import java.util.ArrayList;
4
      import java.util.List;
5
      public class PolicyService { no usages
6
7
8
          List<Policy> allPolicies = new ArrayList<Policy>(); no usages
9
10
          PolicyService() no usages
11
          {
12
              // code to set the policies inside allPolicies
13
14
          // getter & setter of allPolicies
15
      }
16
```

# User class & Business Operations to code

```
3 >
      public class MainClass {
4 >
           public static void main(String[] args) {
5
6
          }
          public void showAllAvailablePolicy(){  no usages
7
8
9
          }
10
          // Overloaded Method
          public Policy getPolicy(int pId){  no usages
11
12
               return null;
13
          }
14
           public Policy getPolicy(String policyName){  no usages
15
               return null;
16
           }
17
18
           public User getUser(String username, String password) no usages
19
20
               return null;
21
22
           public void setPolicy(User user,Policy policy){} no usages
           public void printUserDetails(User user){    no usages
23
24
               /* Print the user name , user address and user policy*/
25
              // Note : if address is not set , Print : Update Address
26
              // if Policy is not yet set , print : No Policy Selected
27
           }
28
29
      }
```