## Assignment No -: 2

Purpose:- Understanding the implementation details of relationships among classes

\*BussinesLogicPackage\*

```
1) Address.java
```

```
package CCOEW;
public class Address {
       private int buildignNo;
       private String buildingName;
       private String streetName;
       private int pincode;
       public int getBuildignNo() {
              return buildignNo;
       }
       public void setBuildignNo(int buildignNo) {
              this.buildignNo = buildignNo;
       }
       public String getBuildingName() {
              return buildingName;
       }
       public void setBuildingName(String buildingName) {
              this.buildingName = buildingName;
       }
       public String getStreetName() {
              return streetName;
       }
       public void setStreetName(String streetName) {
              this.streetName = streetName;
       }
       public int getPincode() {
              return pincode;
       }
       public void setPincode(int pincode) {
              this.pincode = pincode;
       @Override
       public String toString() {
              return "Address [buildignNo=" + buildignNo + ", buildingName="
                             + buildingName + ", streetName=" + streetName + ", pincode="
                             + pincode + "]";
```

```
}
}
2)Coach.java
package CCOEW;
public class extends People{
       private int level_of_accredition ;
       private int no_of_experience;
       public int getLevel_of_accredition() {
              return level_of_accredition;
       public void setLevel_of_accredition(int level_of_accredition) {
              this.level_of_accredition = level_of_accredition;
       public int getNo_of_experience() {
              return no_of_experience;
       public void setNo_of_experience(int no_of_experience) {
              this.no_of_experience = no_of_experience;
       @Override
       public String toString() {
              return "[level_of_accredition=" + level_of_accredition
                             + ", no of experience=" + no of experience + "]";
       }
}
3) Game.java
package CCOEW;
import java.util.ArrayList;
public class Game {
private int score;
private Location location; //should use Enum
private ArrayList<Team>setofteams;
/*public Game(int score, String location) {
       super();
       this.score = score;
       this.location = location;
}
*/
public Game (int score, Location location, Team t1, Team t2){
       super();
       this.score = score;
       this.location = location;
       // set of team will depicted by using ArrayList
        setofteams = new ArrayList<Team>();
```

```
setofteams.add(t1);
        setofteams.add(t2);
public int getScore() {
       return score;
}
public void setScore(int score) {
       this.score = score;
}
public Location getLocation() {
       return location;
}
public void setLocation(Location location) {
       this.location = location;
}
@Override
public String toString() {
       return "Game [score=" + score + ", location=" + location + "]";
}
public void display() {
       System.out.println("Location : " + location + "\tScore : " + score);
       System.out.println("Teams : ");
       for(Team t:setofteams){
              System.out.println(t.getName());
              System.out.println(t.getRecord());
              System.out.println(t.getPlayerSet());
       }
              System.out.println("Score : " + score);
}
4) HockeyLeague.java
package CCOEW;
import java.util.ArrayList;
public class HockeyLeague {
       private ArrayList<Team> Hsetofteams ;
       public HockeyLeague(Team t1,Team t2,Team t3,Team t4){
              super();
               Hsetofteams = new ArrayList<Team>();
               Hsetofteams.add(t1);
               Hsetofteams.add(t2);
               Hsetofteams.add(t3);
               Hsetofteams.add(t4);
```

```
}
       @Override
       public String toString() {
              return "HockeyLeague []";
       public void display(){
              System.out.println("Teams in Hockey League :");
              for(Team t : Hsetofteams){
                     System.out.println(t);
              }
       }
}
5) Location.java
package CCOEW;
public enum Location {
PANAJIM, PUNE, DELHI, MUMBAI;
6)People.java
package CCOEW;
public class People {
       private String name;
       private Address address;
       public String getName() {
              return name;
       public void setName(String name) {
              this.name = name;
       public Address getAddress() {
              return address;
       public void setAddress(Address address) {
              this.address = address;
       @Override
       public String toString() {
              return "[name=" + name + ", address=" + address + "]";
       public void display(){
              System.out.println("People");
              System.out.println("Name="+getName());
              System.out.println("Address="+getAddress());
       }
}
```

```
7)Player.java
package CCOEW;
public class Player extends People {
       private int number;
       private Position position;
       public Player(){
              super();
       public int getNumber() {
              return number;
       public void setNumber(int number) {
              this.number = number;
       public Position getPosition() {
              return position;
       public void setPosition(Position position) {
              this.position = position;
       @Override
       public String toString() {
              return "Player [number=" + number + ", position=" + position
                            + ", Name =" + getName() + ", Address=" + getAddress()+"]";
       }
}
8)Position.java
package CCOEW;
public enum Position {
       goalie,fullbacks,goalkeeper;
}
9) Team.java
package CCOEW;
import java.util.HashSet;
public class Team {
       private String record;
       private String name;
       private HashSet<Player>playerSet;
       private Coach coach;
       public Team(String name, String record,HashSet<Player>playerSet,Coach coach) {
```

```
super();
       this.name = name;
       this.record = record;
       this.playerSet = playerSet;
       this.coach = coach;
}
public Coach getCoach() {
       return coach;
}
public void setCoach(Coach coach) {
       this.coach = coach;
}
public String getName() {
       return name;
}
public void setName(String name) {
       this.name = name;
}
public HashSet<Player> getPlayerSet() {
       return playerSet;
}
public void setPlayerSet(HashSet<Player> playerSet) {
       this.playerSet = playerSet;
}
public String getRecord() {
       return record;
}
public void setRecord(String record) {
       this.record = record;
@Override
public String toString() {
       return "Name= "+name+", Record= " + record;
}
public void display() {
       //System.out.println(getName());
       //System.out.println(getRecord());
       System.out.println("Name : "+name);
       System.out.println("Record : "+record);
       System.out.println("Coach : "+coach);
}
```

```
}
Test.java
package Client;
import java.util.HashSet;
import CCOEW.Address;
import CCOEW.Coach;
import CCOEW.Game;
import CCOEW.HockeyLeague;
import CCOEW.Location;
import CCOEW.Player;
import CCOEW.Position;
import CCOEW.Team;
public class Test {
      /**
      * @param args
      public static void main(String[] args) {
            //Address
            Address add1 = new Address();
            add1.setBuildignNo(2);
            add1.setBuildingName("Aditya Garden");
            add1.setStreetName("Pune");
            add1.setPincode(411058);
            Address add2 = new Address();
            add2.setBuildignNo(3);
            add2.setBuildingName("Dipti Apartment");
            add2.setStreetName("Pune");
            add2.setPincode(411058);
            Address add3 = new Address();
            add3.setBuildignNo(3);
            add3.setBuildingName("Dipti Apartment");
            add3.setStreetName("Pune");
            add3.setPincode(411058);
            //Player
            Player player1=new Player( );
            player1.setNumber(1);
            player1.setPosition(Position.goalie);
            player1.setName("A");
```

player1.setAddress(add1);

Player player2=new Player( );

```
player2.setNumber(2);
player2.setPosition(Position.fullbacks);
player2.setName("B");
player2.setAddress(add2);
Player player3=new Player();
player3.setNumber(3);
player3.setName("C");
player3.setPosition(Position.fullbacks);
player3.setAddress(add3);
Player player4=new Player();
player4.setPosition(Position.goalkeeper);
player4.setNumber(4);
player4.setName("D");
player4.setAddress(add2);
Player player5=new Player();
player5.setNumber(5);
player5.setName("E");
player5.setPosition(Position.fullbacks);
player5.setAddress(add1);
Player player6=new Player();
player6.setNumber(6);
player6.setName("F");
player6.setPosition(Position.goalie);
player6.setAddress(add3);
//Player Set
HashSet<Player>setOfPlayer = new HashSet<Player>();
setOfPlayer.add(player1);
setOfPlayer.add(player2);
setOfPlayer.add(player3);
HashSet<Player>setOfPlayer2 = new HashSet<Player>();
setOfPlayer2.add(player4);
setOfPlayer2.add(player5);
setOfPlayer2.add(player6);
HashSet<Player>setOfPlayer3 = new HashSet<Player>();
setOfPlayer3.add(player4);
setOfPlayer3.add(player1);
setOfPlayer3.add(player5);
HashSet<Player>setOfPlayer4 = new HashSet<Player>();
setOfPlayer4.add(player6);
setOfPlayer4.add(player3);
setOfPlayer4.add(player2);
```

```
Coach coach1 = new Coach();
coach1.setName("PQR");
coach1.setAddress(add3);
coach1.setLevel of accredition(10);
coach1.setNo_of_experience(10);
Coach coach2 = new Coach();
coach2.setName("ABC");
coach2.setAddress(add1);
coach2.setLevel_of_accredition(8);
coach2.setNo_of_experience(15);
Coach coach3 = new Coach();
coach3.setName("MNO");
coach3.setAddress(add2);
coach3.setLevel_of_accredition(5);
coach3.setNo_of_experience(3);
Coach coach4 = new Coach();
coach4.setName("DEF");
coach4.setAddress(add1);
coach4.setLevel_of_accredition(1);
coach4.setNo_of_experience(0);
//Team
Team team1 = new Team("team1", "ABC",setOfPlayer,coach1);
Team team2 = new Team("team2", "PQR",setOfPlayer2,coach2);
Team team3 = new Team("team3","MNO",setOfPlayer3,coach3);
Team team4 = new Team("team4","DEF",setOfPlayer4,coach4);
System.out.println("Teams : ");
team1.display();
System.out.println("");
team2.display();
System.out.println("");
team3.display();
System.out.println("");
team4.display();
System.out.println(" ");
//Hockey League
System.out.println("Hockey League");
HockeyLeague hk = new HockeyLeague(team1,team2,team3,team4);
hk.display();
System.out.println(" ");
System.out.println(" ");
//Game = 1 ; Team 1 && Team 2
System.out.println("Game 1");
Game game1 = new Game(100,Location.MUMBAI, team1, team2);
game1.display();
System.out.println("");
```

```
System.out.println(" ");

//Game = 2; Team 3 && Team 4
System.out.println("Game 2");
Game game2 = new Game(150,Location.PUNE, team3, team4);
game2.display();
}
```