### **Question 1. TestGame.java**

Check that the following code works with the Game class that you created. If there are any problems fix them.

Add a comment for each line saying what is happening in each line.

public class TestGame

{

    public static void main(String[] args)

    {

        Game  game1 = new Game(); //

        game1.setTitle("Call of Duty"); //

        game1.setGenre("Action");

        game1.setPlayers(3);

        game1.print();

        Game gm2 = new Game(“Mines", "Puzzle", 3);

        gm2.print();

    }

}

**Question 2. Actor.java Film.java. ActorFilmTest.java**

**Classes Required**

**Actor Class**

* An Actor will have a name, age, town and a list of three films.

Here is sample data for two Actors:

* Jack Nicholson who’s 74 and lives in Miami, “Wolf”, “As good as it Gets”, “ One flew Over the Cuckoo’s Nest”;
* Violante Placido 38 and lives in Bologna "The American", "Ghost Rider Spirit of Vengence" "Barah Aanan"
* An Actor class will store an array of films. There will be 3 films listed.
* The UML Diagram for the Actor Class is:

**Actor Class**

name: String

address: String

age:int

my\_Films: Films[]

Actor(String, String,int)

setName(String)

getName: String

setAddress(String)

getAddress: String

setAge(int)

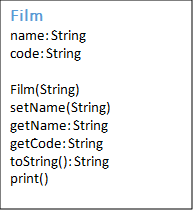
getAge: int

setFilmList(Film [])

getFilmList(): Film[]

toString: String

print()



**Film Class**

A film will have a film title. A code is generated for a Film when it is created using the first letters of the words in the title

**Film Class**

name: String

code: String

Film(String)

setName(String)

getName: String

getCode: String

toString: String

print

**Test Program**

1. **Create a Test program ActorFilmTest. This class will have a main method.**
2. Create an array of 3 Films. Iterate over the array of films to print out the names and code of each of the films.
3. Create two Actor objects .

Note each actor object you create will have **an array** of 3 associated Films.

Print out the data for each actor. This should show the name and age of each actor followed on the next line by a list of his/her films.

Create an **arraylist**  to hold all data about several actors and write a loop to iterate over this array.

1. Write a copy constructor for each object.

Write code to test this.

Note :- Each Actor has to have his/her own collection of Films – make sure to do a deep copy when writing a copy constructor of an actor object.

**Testing Your Copy Constructor**

create actor1

create actor2 to be a copy of actor1 ( Deep Copy)

Change one of the films for actor2 –

Get the list of films for actor2 and change one element.

Print Actor1

Print Actor2

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