Question 2

Write a class Movie. A movie has a title, a running time and a rating. The playing time is at least 60 minutes. Use assert statement(s) to check and enforce this.

Create a constructor that takes the title and running time of the movie as parameters. The rating is then 0.

Create a function put\_rating that takes a list of numbers as a parameter. This function sets the rating of the movie to the average of the numbers from the list. Please note that only ratings in interval [0.5] are considered valid numbers. The other numbers are ignored (this means considered not present).

Create a function that returns a String form of a Movie\_object as shown below.

Create a class Room with a song(???) and a movie as properties.

Write a constructor that only takes the room number as a parameter. The value of the movie property is then None.

Write a function put\_movie that links a Movie object to the venue, if no Movie object is already linked to the venue.

Write a function remove\_movie that detaches the Movie object from the venue.

Write a function that checks whether the same movie is playing in one room as in another room. Two Movie objects are the same if they have the same title.

Write a function put\_rating that takes a list of numbers. The function put\_rating should set the rating of the venue's current movie. This is of course only possible if a Movie object is linked to the room.

Write a function that returns a string form of the movie. As an example below.

Create an app where you:

* Create a movie object with title “Frozen” and running time 135 minutes
* Create a room object with room number 12
* Create a room object with room number 14
* The movie object from a links to the room from b and to the room from c
* Write out whether the same movie is playing in the room from b and the room from c

Output:

**The same movie is playing in room number 12 as the movie in the room** **with number 14**

* Also create another movie and another room and write out whether the same movie is playing in this other room as in room number 12.

Output:

**in room number 12 a different movie is playing than the movie in** **room number 11**

* The rating of the movie from the room of b is given the following list of numbers [1,2,3,4,10,5,1,2,3,4,5,20]
* The rating of the movie from the room of c is given the following list of numbers [5,5,5,5,5]
* write out the string shape of the room from b according to the following example:

**Room: 12**

**Movie: Frozen (2h15min; rating: \*\*\*)**