

Write a Java class **Movie** to represent a movie as per the following UML diagram, class **Movie** has the following Attributes:

name: String represent the name of the movie.

price: double (price of ticket)

tickets: int (Available tickets)

profit: double represents the total sales of tickets

Methods:

+ **Movie()** This constructor sets the name to "NA" and price to 100

+ **Movie(name:String, price:double, tickets: int)**

+ **setters/getters**

+ **display ()** display all the movie information (Look at sample run)

+**sellTickets(num: int):boolean**. This method will sell num amount of tickets and adds the money to profit. But first it must check that the amount of tickets to be sold is less than or equal the remaining tickets. If it is, the sale is performed and the method returns true, if not, the sale is not done and the method returns false. (if num is negative, do not sell and return false)

+**addTickets(num: int):void**. This method adds num amount of tickets to the available tickets. (if num is negative, do not add)

Movie
-name: String -price: double -tickets: int -profit: double
+Movie() +Movie(name:String, price: double, tickets: int) +setName(name:String):void +getName():String +setPrice(price:double):void +getPrice():double +setProfit(profit:double):void +getProfit():double +setTickets(tickets:int):void +getTickets():int +display ():void +sellTickets(num: int):boolean +addTickets(num: int): void

Write a main class called Cinema that will do the following:

- Create Movie object m.
- Ask the user to enter movie name, price and tickets. (use second constructor to create the object)
- Print the following menu:

Cinema
+ main(): void :

----- Please choose from the following options: 1- Display Movie Information 2- Edit Movie Information 3- Sell Movie Tickets 4- Add Movie Tickets 5- Exit ----- Enter your option:	In Option 2: use the setters. Make sure to set profit to zero. In Option 3: use sellTicket. Print if the tickets were sold or not. If the tickets are negative, print "Tickets must be positive" In Option 4: use addTicket. Print if the tickets were added or not. If the tickets are negative, print "Tickets must be positive"
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Repeat until user exits.

You must use the methods or setters and getters to display movie info, edit, sell and add tickets.

```
Welcome to the Cinema Ticket System
Please enter movie name, price, and tickets: Troy 100 1000
-----
Please choose from the following options:
1- Display Movie Information      2- Edit Movie Information
3- Sell Movie Tickets            4- Add Movie Tickets
5- Exit
-----
Enter your option: 6
Wrong input please try again!
-----
Please choose from the following options:
1- Display Movie Information      2- Edit Movie Information
3- Sell Movie Tickets            4- Add Movie Tickets
5- Exit
-----
Enter your option: 1
Movie Name: Troy
Ticket Price: 100.0 SR
Available Tickets: 1000 tickets
Movie Profit: 0.0
-----
Please choose from the following options:
1- Display Movie Information      2- Edit Movie Information
3- Sell Movie Tickets            4- Add Movie Tickets
5- Exit
-----
Enter your option: 3
Please enter how many tickets you want to sell: 80
80 tickets have been sold
-----
Please choose from the following options:
1- Display Movie Information      2- Edit Movie Information
3- Sell Movie Tickets            4- Add Movie Tickets
5- Exit
-----
Enter your option: 1
Movie Name: Troy
Ticket Price: 100.0 SR
Available Tickets: 920 tickets
Movie Profit: 8000.0
-----
Please choose from the following options:
1- Display Movie Information      2- Edit Movie Information
3- Sell Movie Tickets            4- Add Movie Tickets
5- Exit
-----
Enter your option: 4
Please enter how many tickets you want to add: 60
60 Tickets has been added
-----
Please choose from the following options:
1- Display Movie Information      2- Edit Movie Information
3- Sell Movie Tickets            4- Add Movie Tickets
5- Exit
-----
Enter your option: 3
Please enter how many tickets you want to sell: 10000
Sorry we don't have enough tickets!
-----
Please choose from the following options:
1- Display Movie Information      2- Edit Movie Information
3- Sell Movie Tickets            4- Add Movie Tickets
5- Exit
-----
Enter your option: 3
Please enter how many tickets you want to sell: 20
20 tickets have been sold
-----
```

Please choose from the following options:

- | | |
|------------------------------|---------------------------|
| 1- Display Movie Information | 2- Edit Movie Information |
| 3- Sell Movie Tickets | 4- Add Movie Tickets |
| 5- Exit | |

Enter your option: 1

Movie Name: Troy

Ticket Price: 100.0 SR

Available Tickets: 960 tickets

Movie Profit: 10000.0

Please choose from the following options:

- | | |
|------------------------------|---------------------------|
| 1- Display Movie Information | 2- Edit Movie Information |
| 3- Sell Movie Tickets | 4- Add Movie Tickets |
| 5- Exit | |

Enter your option: 4

Please enter how many tickets you want to add: -10

Tickets must be positive!

Please choose from the following options:

- | | |
|------------------------------|---------------------------|
| 1- Display Movie Information | 2- Edit Movie Information |
| 3- Sell Movie Tickets | 4- Add Movie Tickets |
| 5- Exit | |

Enter your option: 2

Please enter movie name, price, and tickets: Avengers 50 300

The new information of the movie is:

Movie Name: Avengers

Ticket Price: 50.0 SR

Available Tickets: 300 tickets

Movie Profit: 0.0

Please choose from the following options:

- | | |
|------------------------------|---------------------------|
| 1- Display Movie Information | 2- Edit Movie Information |
| 3- Sell Movie Tickets | 4- Add Movie Tickets |
| 5- Exit | |

Enter your option: 3

Please enter how many tickets you want to sell: 10

10 tickets have been sold

Please choose from the following options:

- | | |
|------------------------------|---------------------------|
| 1- Display Movie Information | 2- Edit Movie Information |
| 3- Sell Movie Tickets | 4- Add Movie Tickets |
| 5- Exit | |

Enter your option: 1

Movie Name: Avengers

Ticket Price: 50.0 SR

Available Tickets: 290 tickets

Movie Profit: 500.0

Please choose from the following options:

- | | |
|------------------------------|---------------------------|
| 1- Display Movie Information | 2- Edit Movie Information |
| 3- Sell Movie Tickets | 4- Add Movie Tickets |
| 5- Exit | |

Enter your option: 5

Thanks Goodbye!