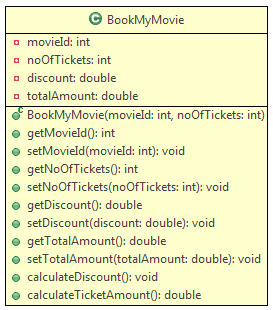
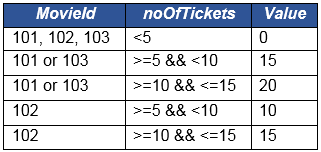
# **Problem Statement:**

BookMyMovie is an online website, through which the required number of tickets can be booked for a particular show. A maximum number of 15 tickets can be issued per booking. Implement the class BookMyMovie as per the class diagram given below:



Method Description:

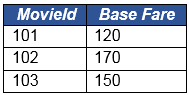
* BookMyMovie(int movieId, int noOfTickets): This constructor is used to initialize the instance variables with user provided values.
* calculateDiscount(): This method is used to set the discount percentage for a particular booking based on the *noOfTickets* issued and the *movieId*. The condition for calculating the discount is given below:



Note: In this above table, Value column stands for the discount percentage.

* calculateTicketAmount(): This method is used to calculate the ticket amount after deducting the discount amount. It should call the method *calculateDiscount()* which sets the discount percentage. Then the *totalAmount* should be calculated using the formula given below:
  + totalAmount = baseFare \* noOfTickets – (baseFare \* noOftickets \* (discount/100))

The baseFare for a given movieId is given below:



Once you implement the above class,

* Create a Tester class.
* Create objects of BookMyMovie class with the sample inputs given below.
* Invoke the calculateTicketAmount() for each of the object and verify with the sample output provided.

Sample I/O:

* Input (For BookMyMovie object 1):
  + *movieId* = 101
  + *noOfTickets* = 5
* Output (For BookMyMovie object 1): Total amount for booking: 510.0

* Input (For BookMyMovie object 2):
  + *movieId* = 102
  + *noOfTickets* = 4
* Output (For BookMyMovie object 2): Total amount for booking: 680.0

* Input (For BookMyMovie object 3):
  + *movieId* = 103
  + *noOfTickets* = 8
* Output (For BookMyMovie object3): Total amount for booking: 1020.0

* For any invalid *movieId*, the output should be,

1. Sorry! Invalid Movie ID!
2. Please check the Movie ID and enter once again.

Note: Check the project using SonarLint to maintain the coding standards. Ignore the violations which occur due to "System.out" statements.