

Define a class named *movieMagic* with the following description:

**Instance variables/data members:**

- int year - to store the year of release of a movie
- String title - to store the title of the movie
- float rating - to store the popularity rating of the movie  
(minimum rating = 0.0 and maximum rating = 5.

**Member methods:**

- movieMagic( ) - Default constructor to initialize numeric data members to 0 and String data member to ""
- void accept( ) - To input and store year, title and rating
- void display( ) - To display the title of a movie and a message based on the rating as per the table below

**Rating**

0.0 to 2.0

2.1 to 3.4

3.5 to 4.05

4.6 to 5.0

**Message to be displayed**

Flop

Semi-hit

Hit

Super-Hit

Define a class called **Library** with the following description:

**Instance variables/data members:**

int acc\_num - stores the accession number of the book

String title - stores the title of the book

String author - stores the name of the author

**Member methods:**

void input( ) - to input and store the accession number, title and author.

void compute( ) - to accept the number of days late, calculate and display the fine charged at the rate of Rs 2/- per day.

void display( ) - to display the details in the following format:

Accession Number

-----

Title

-----

Author

-----

Write a main method to create an object of the class and call the above member methods.

Define a class **employee** having the following description:-

**Data members / Instance variables**

int pan                                   to store personal account number  
String name                           to store name  
double taxincome                   to store annual taxable income  
double tax                           to store tax that is calculated

**Member functions:**

input( )                               Store the pan number, name, taxableincome  
calc( )                                Calculate tax for an employee  
display( )                            Output details of an employee

Write a program to compute the tax according to the given conditions and display the output as per given format.

**Total Annual Taxable Income           Tax Rate**

Upto Rs 1,00,000	No tax
From 1,00,001 to 1,50,000	10% of the income exceeding Rs 1,00,000
From 1,50,001 to 2,50,000	Rs 5000 + 20% of the income exceeding Rs 1,50,000
Above Rs 2,50,000	Rs 25,000 + 30% of the income exceeding Rs 2,50,000

**Output:**

<b>Pan Number</b>	<b>Name</b>	<b>Tax-income</b>	<b>Tax</b>
-	-	-	-

Define a class **BookStore** having the following specifications:

**Data Member:**

Name of the book, author, publication and cost.

**Member Methods:**

- (i) To accept the book details
- (ii) To calculate the discount of 13.5% given on all books.
- (iii) To display the book details.

Using a main method and an object call the above methods.

Define a class **salary** described as below:-

**Data Members :**

Name, Address, Phone, Subject Specialization, Monthly Salary, Income tax

**Member methods :**

- i. To accept the details of a teacher including the monthly salary.
- ii. To display the details of the teacher.
- iii. To compute the annual Income tax as 5% of the annual salary above Rs 1,75,000

Write a main method to create object of a class and call the above member method.