Class description – I have created a Movie class that a user can make use of to create multiple Movie objects for different movies using class variables like, movie title, length, price, mode and genre. The user can get a summary of their entire choices and some extra information about their movie for a better viewing experience.

Variable description – Five class variables and five instance variables were defined.

Class variables –

title – Class variable for title.

genre - Class variable for genre.

mode - Class variable for mode.

length - Class variable for length.

price - Class variable for price.

Data variables –

__title – variable for title initialization for the object

__genre - variable for genre initialization for the object

__mode - variable for mode initialization for the object

__length - variable for length initialization for the object

__price - variable for price initialization for the object

__tax – to store the fixed tax of 10% for calculation

__len – to store the floating point value of the length of the movie

__c – stores the user's choice value

Method description – 5 get and 5 set methods along with 3 non-get-set methods.

set_title(self, title)/ set_mode(self, mode)/ set_price(self, price)/set_length(self, length)/set_genre(self, genre) – to return the respective values of the particular object

get_title(self)/get_mode(self)/get_genre(self)/get_length(self)/get_price(self) – to assign the user values to the instance variables of the particular object

computePrice(self) – method to add taxes to the base price and print a message based on the mode selected by the user along with the price, like for theatre we inform the user about the extra charges of let's say ride and parking along with snacks that the user would have to incur along the movie price to watch the movie physically.

howLong(self) – method to give the user an idea of how long of a commitment they are making before starting the movie and a subjective idea of how long the audience has thought the movie felt based on the movie length.

customMessaage(self) – method to show a fun little message based of the genre of the movie.

Demo program description – In the main () method I have created a loop which runs on user input, as long as the user doesn't press 0 when prompted the choice, the program will keep running and the user will be prompted to enter movie name, mode of watching, base price in dollars, length of movie hours and genre of the movie. After entering all the required info the details of the movie would be displayed, along with a custom message, how long the movie feels and the final price of the movie inclusive of all taxes.

Demo Program Instructions – Run the python file, the user will be prompted to enter movie name, mode of watching, base price in dollars, length of movie hours and genre of the movie. After the results are displayed, the user will be prompted to press 0 to exit and 1 to add details of another movie and the user can choose accordingly.