PROFESSIONAL

MOVIE RATING CLASS

INSTRUCTIONS:

Goal of the Project:

In Class 100, you learned a dictionary data type in Python**.** You created a Phone Book using classes and objects. In this project, you will use similar concepts to create a class to store movie ratings and objects to access the class.

Story:

You love to watch movies and give your opinion about the stories, actors and music of the movie. In order to store your rating, you can create a **class** for saving your ratings using Python.

```
Thanks for the response, You rated Movie with   *
{'Movie Name': 'Good Life', 'Story rating': 1, 'Actor Rating': 1, 'Music Rating': 3, 'Avg Rating': 1}
Thanks for the response, You rated Movie with   * * * * *
{'Movie Name': 'Beautiful Sound', 'Story rating': 5, 'Actor Rating': 5, 'Music Rating': 5, 'Avg Rating': 5}
Thanks for the response, You rated Movie with   *
{'Movie Name': 'Smiley', 'Story rating': 1, 'Actor Rating': 1, 'Music Rating': 3, 'Avg Rating': 1}
```

***This is just for your reference. We expect you to apply your own creativity to the project.**

Getting Started:

1. Log in with your Google account into Google Colab
2. Click on the **+code** cell to write the function.

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Specific Tasks to complete the Project:

1. Create a class **MovieReview:**
2. Define **__init__()** method with **self**, and other parameters to accept values for a movie name, ratings for a story, actors, and music properties.
3. Assign the values of parameters to respective properties

```
class MovieReview:
  def __init__(self, movie, story, actors, music):
    #Movie name
    self.movie_name = movie

    #Ratings
    self.story_rating = story
    self.actor_rating = actors
    self.music_rating = music
```

4. Create a property **self.avg** to calculate and store the average rating of stormy actors and music.
    - Remember to convert to **int** to avoid decimal places.
    - To find an average, we add the values then divide them by a total number of values.

      Avg = (val1+val2+val3) / 3

```
#Average Ratings
self.avg = int((self.story_rating + self.actor_rating + self.music_rating)/3)
```

5. Create a dictionary variable named **self.myrating** to store all the values in one place.

```
#Move Info
self.myrating = {
    "Movie Name" : self.movie_name,
    "Story rating" : self.story_rating,
    "Actor Rating": self.actor_rating,
    "Music Rating": self.music_rating,
    "Avg Rating" : self.avg
}
```

6. Create a global list variable **moviereviews = [].**
7. Create an object of the class **MovieReview** and pass the values for movie name and rating for story, actors, music from the movie between 1 and 5. 1 being the lowest and 5 being the highest.

```
review2 = MovieReview("Beautiful Sound", 5, 5, 5)
```

8. Create a method **add_movie_ratings(self, movie_list)** and pass the list "**moviereviewes**" to it using the object.
    - Use **.append()** to add new records of **self.myrating** to **movie_list**

```
movie_list.append(self.myrating)
```

9. In order to give Stars " ***** ", we will compare the value of **"Avg Rating"** with 1 to 5.
10. Create a method **get_star**
    - Use **for** loop to traverse through each record of **movie_list**
    - Use the **if-elif-else** condition to check value of **"Avg Rating"**
    - Use **print() to display * s** and record of **Movie**

```
def avg_star_ratings(self, movie_list):
  for movie in movie_list:
    if(movie["Avg Rating"] == 1 ):
      print("Thanks for the response, You rated Movie with   *")
      print(movie)

    elif(movie["Avg Rating"] == 2 ):
```

11. Using an **object** of class; call methods to add the **moviereview** and **avg_star_rating**

```
review2 = MovieReview("Beautiful Sound", 5, 5, 5)
review2.add_movie_ratings(moviereviews)
review2.avg_star_ratings(moviereviews)
```

12. Run the code

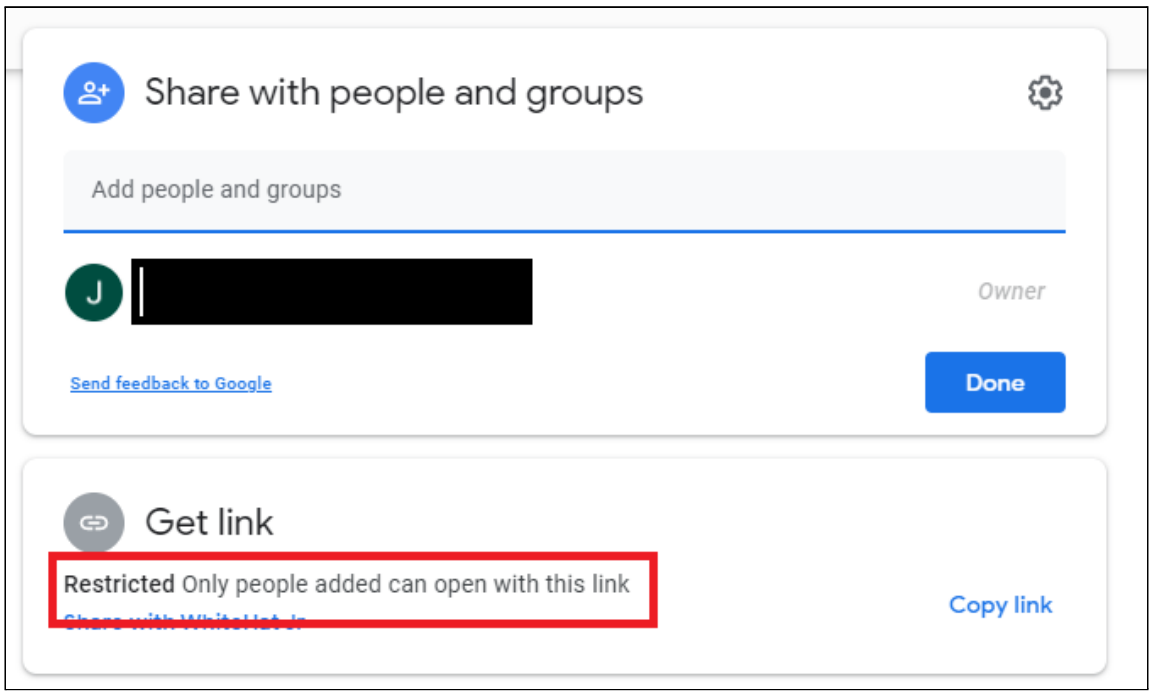
Submitting the Project:

1. **SAVE** all the changes made to the project.
2. Click on "**Run**" once to check if it is working.
3. Click the "**SHARE**" button to generate a shareable link. (See Hint 1)
4. Copy this link and submit it in the Student Dashboard Projects panel against the correct class number.

Hints:

1. On the right-hand corner of the Google Colab, you will find a share button. Click on Share.

   - Click on the highlighted block.



   - Select from the dropdown “Anyone with the Link”.
   - On the right side select “Viewer”
   - Click on the “Copy link”

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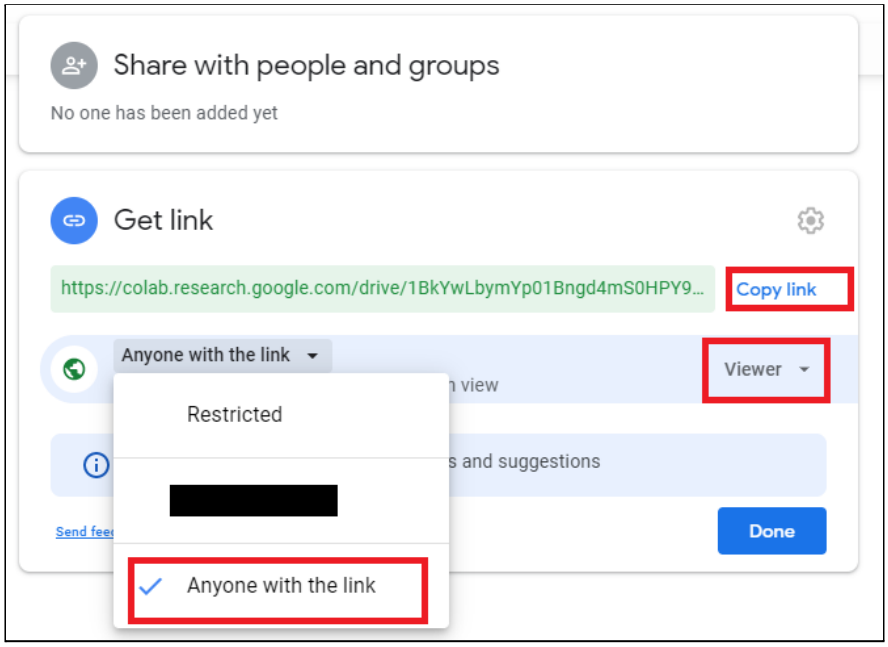

REMEMBER... Try your best, that's more important than being correct.

After submitting your project your teacher will send you feedback on your work.

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