```
In [258]: print("Name :")
   print("We will learn about bubble plot today and find some intresting facts
```

Name:

We will learn about bubble plot today and find some intresting facts about prodution of movies their revenue

Activity 1 - Which movies has collected more than Four hundred million dollors in box office

```
In [265]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np

disney_movies = pd.read_csv('disney_movies.csv')
disney_movies
```

Out[265]:

	movie_title	release_date	genre	mpaa_rating	total_gross	inflation_adjusted_gross
0	Snow White and the Seven Dwarfs	1937-12-21	Musical	G	184925485	5228953251
1	Pinocchio	1940-02-09	Adventure	G	84300000	2188229052
2	Fantasia	1940-11-13	Musical	G	83320000	2187090808
3	Song of the South	1946-11-12	Adventure	G	65000000	1078510579
4	Cinderella	1950-02-15	Drama	G	85000000	920608730
574	The Light Between Oceans	2016-09-02	Drama	PG-13	12545979	12545979
575	Queen of Katwe	2016-09-23	Drama	PG	8874389	8874389
576	Doctor Strange	2016-11-04	Adventure	PG-13	232532923	232532923
577	Moana	2016-11-23	Adventure	PG	246082029	246082029
578	Rogue One: A Star Wars Story	2016-12-16	Adventure	PG-13	529483936	529483936

 $579 \text{ rows} \times 6 \text{ columns}$

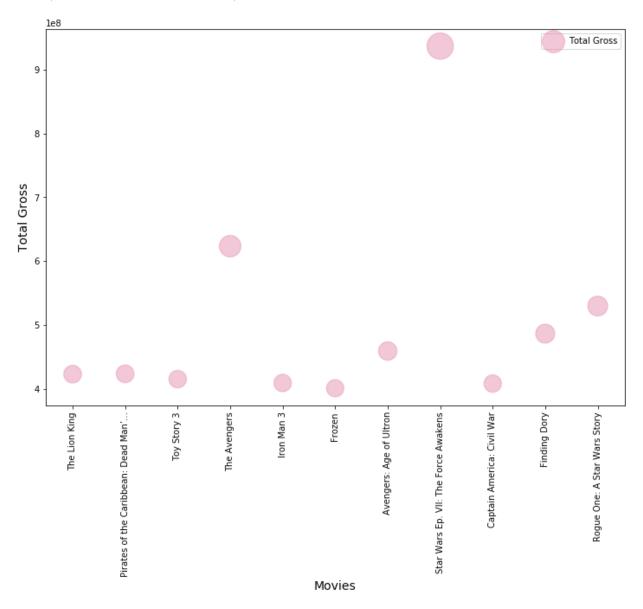
In [267]: #Find list of movies who has collected more then Four hundred million dollo
 movies_collection = disney_movies.loc[disney_movies['total_gross'] > 400000
 movies_collection

Out[267]:

	movie_title	release_date	genre	mpaa_rating	total_gross	inflation_adjusted_gross
179	The Lion King	1994-06-15	Adventure	G	422780140	761640898
441	Pirates of the Caribbean: Dead Man'	2006-07-07	Adventure	PG-13	423315812	544817142
499	Toy Story 3	2010-06-18	Adventure	G	415004880	443408255
524	The Avengers	2012-05-04	Action	PG-13	623279547	660081224
532	Iron Man 3	2013-05-03	Action	PG-13	408992272	424084233
539	Frozen	2013-11-22	Adventure	PG	400738009	414997174
558	Avengers: Age of Ultron	2015-05-01	Action	PG-13	459005868	459005868
564	Star Wars Ep. VII: The Force Awakens	2015-12-18	Adventure	PG-13	936662225	936662225
569	Captain America: Civil War	2016-05-06	Action	PG-13	408084349	408084349
571	Finding Dory	2016-06-17	Adventure	PG	486295561	486295561
578	Rogue One: A Star Wars Story	2016-12-16	Adventure	PG-13	529483936	529483936

[0.90222446 0.56304913 0.69719519]

Out[268]: Text(0, 0.5, 'Total Gross')



Conclusion - Star wars Ep 7: The Force Awakers and The Avengers are 2 movies which made the most in box office till now

Activity 2 - Find the total number of movies per year and plot a bubble chart, to find out in which year the maximum movies were produced

```
In [1]: #Import libraries and read csv 'movie_update.csv'
    import pandas as pd
    import matplotlib.pyplot as plt
    import numpy as np
    disney_movies = pd.read_csv('disney_movies.csv')
    disney_movies
In [2]: #Group by year column and find total number of movies released each year
    group_year = movie_update.groupby('Year')['Title'].count().reset_index()
    group_year
```

Conclusion -

Activity 3 - Find which category of movie has the maximum income as per you.

In	[]:	
In	[]:	
In	[]:	
In	[]:	