In [21]:
```
!pip install pandas
```

```
Requirement already satisfied: pandas in c:\users\shrividhyaa\anaconda\lib\site
-packages (1.1.3)
Requirement already satisfied: python-dateutil>=2.7.3 in c:\users\shrividhyaa\a
naconda\lib\site-packages (from pandas) (2.8.1)
Requirement already satisfied: pytz>=2017.2 in c:\users\shrividhyaa\anaconda\li
b\site-packages (from pandas) (2020.1)
Requirement already satisfied: numpy>=1.15.4 in c:\users\shrividhyaa\anaconda\l
ib\site-packages (from pandas) (1.19.2)
Requirement already satisfied: six>=1.5 in c:\users\shrividhyaa\anaconda\lib\si
te-packages (from python-dateutil>=2.7.3->pandas) (1.15.0)
Requirement already satisfied: numpy in c:\users\shrividhyaa\anaconda\lib\site-
packages (1.19.2)
Requirement already satisfied: matplotlib in c:\users\shrividhyaa\anaconda\lib
\site-packages (3.3.2)
Requirement already satisfied: certifi>=2020.06.20 in c:\users\shrividhyaa\anac
onda\lib\site-packages (from matplotlib) (2020.6.20)
Requirement already satisfied: cycler>=0.10 in c:\users\shrividhyaa\anaconda\li
b\site-packages (from matplotlib) (0.10.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\shrividhyaa\anacon
da\lib\site-packages (from matplotlib) (1.3.0)
Requirement already satisfied: python-dateutil>=2.1 in c:\users\shrividhyaa\ana
conda\lib\site-packages (from matplotlib) (2.8.1)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.3 in c:\u
sers\shrividhyaa\anaconda\lib\site-packages (from matplotlib) (2.4.7)
Requirement already satisfied: numpy>=1.15 in c:\users\shrividhyaa\anaconda\lib
\site-packages (from matplotlib) (1.19.2)
Requirement already satisfied: pillow>=6.2.0 in c:\users\shrividhyaa\anaconda\l
ib\site-packages (from matplotlib) (8.0.1)
Requirement already satisfied: six in c:\users\shrividhyaa\anaconda\lib\site-pa
ckages (from cycler>=0.10->matplotlib) (1.15.0)
```

In [22]:
```
!pip install numpy
```

```
Requirement already satisfied: numpy in c:\users\shrividhyaa\anaconda\lib\site-
packages (1.19.2)
```

In [23]:
```
!pip install matplotlib
```

```
Requirement already satisfied: matplotlib in c:\users\shrividhyaa\anaconda\lib
\site-packages (3.3.2)
Requirement already satisfied: numpy>=1.15 in c:\users\shrividhyaa\anaconda\lib
\site-packages (from matplotlib) (1.19.2)
Requirement already satisfied: python-dateutil>=2.1 in c:\users\shrividhyaa\ana
conda\lib\site-packages (from matplotlib) (2.8.1)
Requirement already satisfied: certifi>=2020.06.20 in c:\users\shrividhyaa\anac
onda\lib\site-packages (from matplotlib) (2020.6.20)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\shrividhyaa\anacon
da\lib\site-packages (from matplotlib) (1.3.0)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.3 in c:\u
sers\shrividhyaa\anaconda\lib\site-packages (from matplotlib) (2.4.7)
Requirement already satisfied: cycler>=0.10 in c:\users\shrividhyaa\anaconda\li
b\site-packages (from matplotlib) (0.10.0)
Requirement already satisfied: pillow>=6.2.0 in c:\users\shrividhyaa\anaconda\l
ib\site-packages (from matplotlib) (8.0.1)
Requirement already satisfied: six>=1.5 in c:\users\shrividhyaa\anaconda\lib\si
te-packages (from python-dateutil>=2.1->matplotlib) (1.15.0)
```

In [24]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

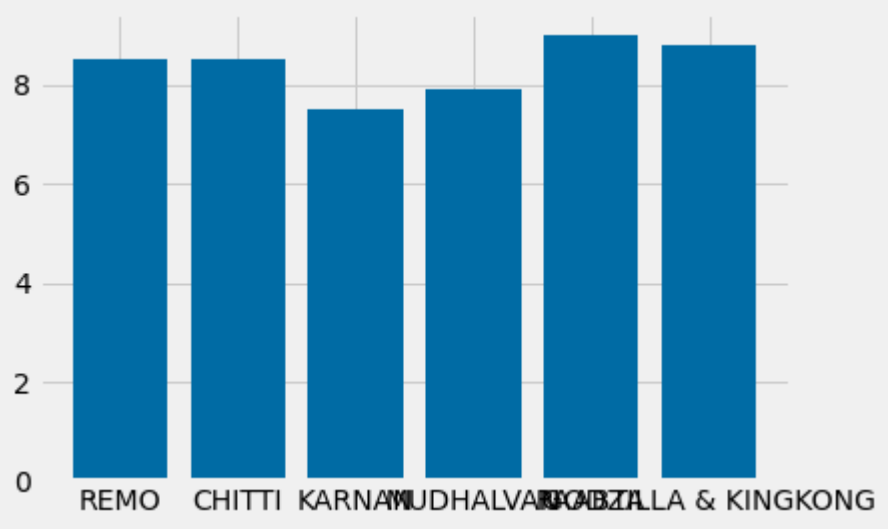
In [76]:
```
movie= pd.read_csv(r'C:\Users\shrividhyaa\Desktop\MOVIE DATA(KESHAV) (2).csv')
```

In [77]:
```
movie.columns
```

Out[77]:
```
Index(['MOVIE_NAME', 'RELEASE DATE', 'DURATION', 'RATING'], dtype='object')
```

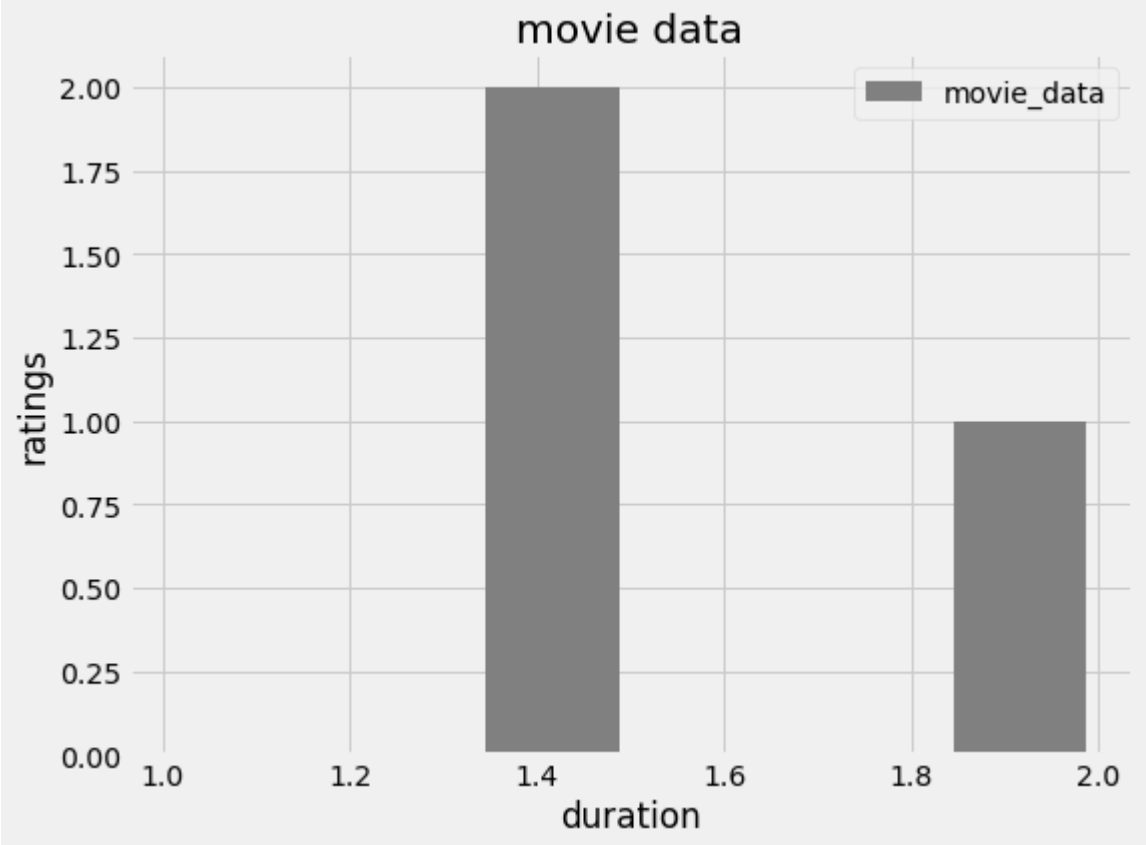
In [83]:
```
#line plot
x = movie['RATING']
y=movie['DURATION']
plt.plot(x)
plt.title("test plot")
plt.xlabel("Rating")
plt.ylabel("Duration")
plt.show()
```

In [85]:
```
#pie chart
MOVIE_NAME = ['REMO','CHITTI','KARNAN','MUDHALVAN','RAABTA','GODZILLA & KINGKONG'
RATING = [8.5,8.5,7.5,7.9,9,8.8]
plt.bar(MOVIE_NAME ,RATING)
plt.show()
```



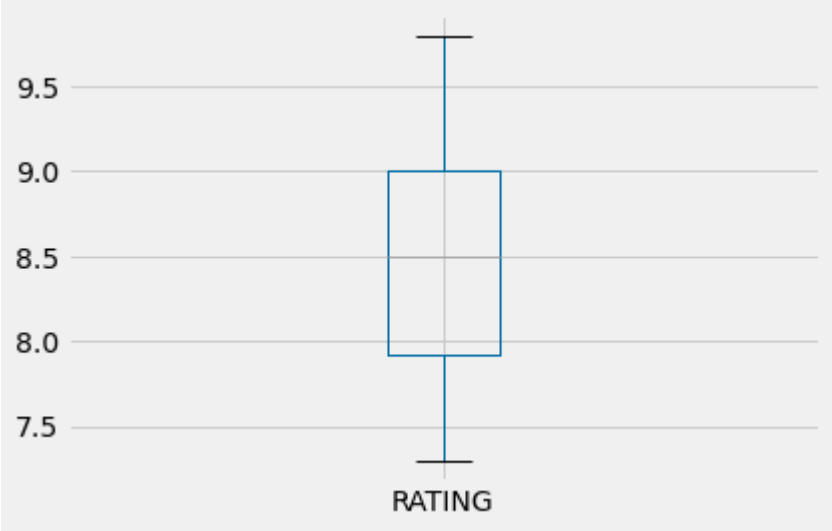
In [44]:
```
#histogram
plt.figure(figsize=(8,6))
plt.style.use('tableau-colorblind10')
ratings=[8.5,8.5,7.5,7.9,9,9.5,8.8]

plt.hist(duration,range=[1,2], density=False, bins= 6, rwidth=0.85,
         histtype='barstacked', label= 'movie_data', color= 'grey')
plt.title('movie data')
plt.xlabel('duration')
plt.ylabel('ratings')
plt.legend()
```

Out[44]: <matplotlib.legend.Legend at 0x26ecdca2190>



In [86]:
```
#box-plot
movie.boxplot()
```

Out[86]: <AxesSubplot:>



In [ ]:
```

```