In [2]:

```python
import requests
import json
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
ans=pd.read_csv("zomato.csv",encoding="latin-1")
data=ans.copy()
dictt={}
indian=data[data['Country Code']==1]
for i in range(len(indian)):
    name=indian['Restaurant ID'].iloc[i]
    li=[]
    ratinglist=[]
    votesli=[]
    if name in dictt:
        li=dictt[name]
        rating=li[0]
        votes=li[1]
        rating.append(indian['Aggregate rating'].iloc[i])
        votes.append(indian['Votes'].iloc[i])
        li=[rating,votes]
        dictt[name]=li
    else:
        li=[indian['Aggregate rating'].iloc[i],indian['Votes'].iloc[i]]
        dictt[name]=li
userratingli=[]
votes=[]
for i in dictt:
    userratingli.append(dictt[i][0])
    votes.append(dictt[i][1])
```

JUSTIFICATION

In this i made a dictionay Keeping Restaurant name as Key and in the value i kept a list. In the list i passes two things.

1) User-Rating

2) Votes

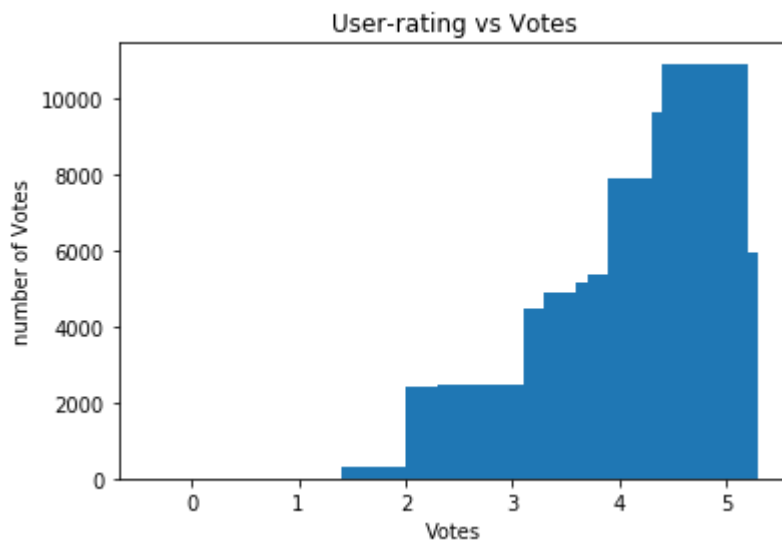Made a separte lost for both of them and used it to make a graph.

ANALYSIS

I think the User-Rating is the sum of thi formula. sum(votes5+votes4+votes3+votes2+votes*1)//total number of votes.

This is how Exact number of user-rating comes.

In [4]:

```python
plt.bar(userratingli,votes)
plt.title("User-rating vs Votes")
plt.xlabel("Votes")
plt.ylabel("number of Votes")
plt.show()
```


In [ ]: