***PROBLEM STATEMENT***

1. Develop a vote counter. Read the electiondata.csv files. Traverse through both the files and write code logic on files to perform the following:
2. Count the total votes
3. List the unique candidates
4. Tally the total votes for each candidates
5. Find the winner
6. Write the results to a file

Leave out the header while doing these operations. Write separate functions for each of the task

***INPUT:-***

*import pandas as pd*

*df = pd.read\_csv('C:\\Users\Lenovo\Documents\ICUP Assignment Problems\ICUP Assignment Problems\Problem Statement 13\election\_data\_1.csv')*

*dg = pd.read\_csv('C:\\Users\Lenovo\Documents\ICUP Assignment Problems\ICUP Assignment Problems\Problem Statement 13\election\_data\_2.csv')*

*df\_list=[df,dg]*

*result=pd.concat(df\_list)*

*result*

*s = result.shape[0]*

*print("total votes =",result.shape[0])*

*print("unique candidates :",result.Candidate.unique())*

*print("Votes for each Candidate:")*

*a=result['Candidate'].value\_counts()*

*y = str(a)*

*print(a)*

*print("maximum votes are=",a.max())*

*f = open("results1.txt", "w+")*

*f.write(str(s))*

*f.write(str(result.Candidate.unique()))*

*f.write(y)*

*f.write(str(a.max()))*

*f.write("hello")*

**OUTPUT:-**

*total votes = 4324001*

*unique candidates : ['Vestal' 'Torres' 'Seth' 'Cordin' 'Khan' 'Correy' 'Li' "O'Tooley"]*

*Votes for each Candidate:*

*Khan 2218231*

*Correy 704200*

*Li 492940*

*Vestal 385440*

*Torres 353320*

*O'Tooley 105630*

*Seth 40150*

*Cordin 24090*

*Name: Candidate, dtype: int64*

*maximum votes are= 2218231*