

In [1]:

```

import pandas as pd
import nltk
from nltk.corpus import stopwords
from nltk.stem.porter import *
from textblob import TextBlob, Word
import matplotlib.pyplot as plt
import os
import numpy as np
RawDataFrame=[]
IndexName=[]
for i in os.listdir("metinler/"):
    file = open("metinler/{}".format(i), "r", encoding='iso8859-9')#turkishcode
    IndexName.append("{}".format(i))
    filetext=file.read()
    file.close()
    RawDataFrame.append("".join(TextBlob(filetext).translate(to = "en")))
dataframe=pd.DataFrame(RawDataFrame,columns=["Comments"])
dataframe['filename']=IndexName

```

In [2]:

```

dataframe.to_csv("Translated.csv")# There is limit so i read it
dataframe

```

Out[2]:

	0	filename
0	The third week of school started today. Eventu...	1.txt
1	Hello, we have gathered half of Çırağan's lege...	10.txt
2	I can say that we brought Istanbul upside down...	100.txt
3	hey hey !!!! I'm so happy my exams are over. I...	101.txt
4	On January 29, 2007, a long time has passed si...	102.txt
...
130	Another innocent baby who came to the world wi...	95.txt
131	Even if your heart cries, smile out of spite\n...	96.txt
132	look at the sound of the rain\ninvites to love...	97.txt
133	I could not put a title on this article ... I ...	98.txt
134	I am so sorry ... I am so sorry ... The memori...	99.txt

135 rows × 2 columns

In [1]:

```
import pandas as pd
import nltk
from nltk.corpus import stopwords
from nltk.stem.porter import *
from textblob import TextBlob, Word
import matplotlib.pyplot as plt
import os
import numpy as np
dataframe=pd.read_csv("Translated.csv", header = 0 , index_col = 0, squeeze = True)
dataframe.columns=["Comments", "filename"]
df=dataframe["Comments"]
```

In [2]:

```
df=df.apply(lambda x: " ".join(x.lower() for x in x.split()))
df=df.replace('[^\w\s:>()]', '', regex=True)#regex emojiiler haric
df=df.replace('\d+', '', regex=True)#regex
sw=stopwords.words("english")
df=df.apply(lambda x: " ".join(x for x in x.split() if x not in sw))
df=df.apply(lambda x: TextBlob(x).words())

#stemmer = PorterStemmer()
#df=df.apply(lambda x: " ".join(stemmer.stem(word) for word in x))
df=df.apply(lambda x: " ".join(Word.lemmatize(word) for word in x))
```

In [3]:

```
def sentiments_score(df):
    result_score=[]
    result_class=[]
    for i in df:
        textB = TextBlob(i)
        sentiments_score = textB.sentiment.polarity
        result_score.append(sentiments_score)

        if sentiments_score <0.00:
            result_class.append('Negative')

        elif sentiments_score >0.00:
            result_class.append('Pozitive')

        else:
            result_class.append('Notre')

    return result_score,result_class
```

In [4]:

```
BiggerData=pd.DataFrame(df.values,columns=['Data'])  
BiggerData['Score'],BiggerData['Class']=sentiments_score(df)  
BiggerData["FileName"]=dataframe["filename"]  
BiggerData.groupby("Class").count()["Score"]
```

Out[4]:

```
Class  
Negative      45  
Notre         1  
Pozitive      89  
Name: Score, dtype: int64
```

In [7]:

```
with pd.option_context('display.max_rows', None, 'display.max_columns', None): # more  
    options can be specified also  
    print(BiggerData["Data"])
```

0 third week school started today eventually cla...
1 hello gathered half çırağans legendary crew ev...
2 say brought istanbul upside uncle called morni...
3 hey hey im happy exam swear im happy girl coul...
4 january long time passed since wrote last arti...
5 understand better mean want fail yet like clos...
6 im happy ordered food half hour ago condition ...
7 everything wonderful happy human world happier...
8 lord accepts prayer amine never read expositor...
9 started weaken want share happiness wrote frie...
10 hi got last news sooooooooo happy cant tell glad...
11 joyful morning wonderful day want drop sorrow ...
12 yesterday wrote post piloy day happy post form...
13 opened summer season end today went aqua park ...
14 school really bad school term student profile ...
15 okay alcohol fine get annoyed beer junk sends ...
16 get annoyed dealing thing cant ive browsing bl...
17 ive getting bored lately emre quit work consta...
18 get nervous im alone wear clothes im going sto...
19 painter dream murat yilmazyıldırım dont know g...
20 today think attended action first time life la...
21 forward email im nervous shouldnt even say for...
22 found picture write saved draft tired sat nigh...
23 ridiculous divina tag boring machine disturb s...
24 im angry cant tell im officially crazy long st...
25 im nervous sick one reason needle dont like ne...
26 im nervous name campaign stuff called gncitrkcl...
27 hello ive following blog always given image co...
28 avg vote confused emotion lately can not laugh...
29 condition complaint diagnosed mania depression...
30 tell anyone else person love doesnt need love ...
31 february okan yuksel fav review tag world huma...
32 love enjoying chamber many tavern wandered ton...
33 god soft touchable livable day go able see lig...
34 skip main skip sidebar kassiopeia thing everyo...
35 know posting title somehow know animal right d...
36 stay away today mind smoke nose ear fire eye a...
37 dear diary midst extremely tense day threshold...
38 dont even look good together first im angry so...
39 im angry blog cant person understand sentence ...
40 anger tear went hoping see hoping see werent t...
41 im angry im angry yes im angry disease called ...
42 angry anger worse anger thing life can not und...
43 look benjamin allergy palm scratching itching ...
44 much güsel waking early morning bright day imm...
45 dont know many month waited street built vino ...
46 weather hit u suffocated scorching heat maybe ...
47 dear look like strong person excitement mother...
48 tiredness destroying like always tired tired u...
49 openly annoyed black market system going buy t...
50 wrote think barber say entry bus dont like con...
51 hand sweating lot today trouble started domina...
52 cheerful today happy delighted even underdevel...
53 title bit general clean friend programming too...
54 upon time farmer living chinese town fenghuang...
55 thanks mediterranean people thanks thousand mi...
56 popular subject recent day child nowadays chil...
57 going pay tuition money could pay round since ...
58 get annoyed type go collective organization al...
59 wrote think barber say entry bus dont like con...
60 umut sarıkaya drew story nonwriting pen pencil...

61 couple scribbled something say anything wrote ...
62 get angry director write aimless nonnarrative ...
63 im getting annoyed dialup phone phone house gr...
64 need talk much im getting annoyed cable runnin...
65 yes writing dont live big city let see many pe...
66 going say many mistake can not made could get ...
67 yildiz technical university informatics club b...
68 sartre said hell people well thinker mean im c...
69 mantis shrimp honey badger crazy interesting t...
70 cant find topic biggest resource friend search...
71 know title text match area whatever come mind ...
72 university student passion electronics try ada...
73 starting write let state confused title say co...
74 topic came today came mind get nervous caulifl...
75 wasnt always like thought alone wasnt always l...
76 shouldnt stranger much long time think left me...
77 went balcony breathe easy overwhelmed everythi...
78 dont remember read whenever tell someone see e...
79 one day faced life learned laugh cry maybe mis...
80 nedim özbey coach istanbul büyükşehir belediye...
81 youmake sad noticed today making sad gone yest...
82 sad year ago left full overflowing trouble say...
83 heard friend acar im divorced dont know actual...
84 love enjoying chamber many tavern wandered ton...
85 im sorry feel sorry deny glorious honorable hi...
86 contrary silence can not tell rebellion hand n...
87 firstly apologize heard situation write behal...
88 front passenger sadness ship passenger ship le...
89 surrendered union th april rite since day gone...
90 every time come date time divided two season b...
91 month ago year ago parent succumbed passion so...
92 today sad hopeless tomorrow can not touch bar ...
93 everyone know mozart productive influential co...
94 gülse birsal announced european side going yea...
95 even dont want return unrequited love whether ...
96 sad ferry tired voyage remember sparkling nigh...
97 know could tiredness year hazan still bring he...
98 beautiful people beautiful writing horizon lin...
99 sad today daughter going take father house sai...
100 sorry today sorry tomorrow tired today tired w...
101 im little sad tonight im way tomorrow say good...
102 leaf cypress fall autumn wouldnt come silence ...
103 movie came recently settled conversation good ...
104 life good bird beautiful madonna entered gines...
105 g download sizlerleyiminanink mutluyumned fiel...
106 happy trotter i used smiley relaxed life going...
107 wife surprised today bought canon eos camera l...
108 new transfer burak yilmaz said happy proud pla...
109 dont know exactly nowadays im happy think must...
110 love win dont love always kayber lose salt tas...
111 im happy think least reason unhappy know actua...
112 fernando alonso said happy fourth italian gran...
113 today im going style first time in article sai...
114 im anonymous blogger wrote comment looked anot...
115 made mistake headache reading apologize mornin...
116 super mix good article goodnight august thursd...
117 film politely discard comment prejudice made w...
118 laugh someone else feel sorry another sorry lo...
119 weekend syndrome everyone look forward friday ...
120 im confused matter portal saying forum set mon...
121 past contract teacher appointment friend assig...

```
122 said university went different city know life ...
123 must thousand year since wrote course thousand...
124 yes nice say apply dont want overwhelm emotion...
125 extremely sorry ya really cant believe eye rez...
126 im sorry even writing sad let someone say some...
127 know could fatigue year hazan still bring hear...
128 im sad today telling worry think hand sad coul...
129 heart broken im sad loneliness lonely night im...
130 another innocent baby came world debt neck wou...
131 even heart cry smile spite wear dream walk hai...
132 look sound rain invite love every drop hit gla...
133 could put title article sorry wish patience go...
134 sorry sorry memory lived memory lived happened...
```

Name: Data, dtype: object

In [6]:

```
with pd.option_context('display.max_rows', None, 'display.max_columns', None): # more  
    options can be specified also  
    print(BiggerData[["FileName", "Score", "Class"]])
```


	FileName	Score	Class
0	1.txt	-0.028623	Negative
1	10.txt	0.180208	Pozitive
2	100.txt	0.204685	Pozitive
3	101.txt	0.103236	Pozitive
4	102.txt	0.204785	Pozitive
5	103.txt	0.304104	Pozitive
6	104.txt	0.294444	Pozitive
7	105.txt	0.450000	Pozitive
8	106.txt	-0.075000	Negative
9	107.txt	-0.024351	Negative
10	108.txt	0.276494	Pozitive
11	109.txt	0.497360	Pozitive
12	11.txt	0.368795	Pozitive
13	110.txt	0.107692	Pozitive
14	111.txt	-0.024537	Negative
15	112.txt	-0.001961	Negative
16	113.txt	-0.150103	Negative
17	114.txt	-0.323958	Negative
18	115.txt	-0.024074	Negative
19	116.txt	-0.100000	Negative
20	117.txt	-0.087500	Negative
21	118.txt	-0.112821	Negative
22	119.txt	-0.226840	Negative
23	12.txt	0.108910	Pozitive
24	120.txt	0.104286	Pozitive
25	121.txt	0.055952	Pozitive
26	122.txt	0.100818	Pozitive
27	123.txt	0.117059	Pozitive
28	125.txt	-0.048859	Negative
29	126.txt	-0.035355	Negative
30	127.txt	0.194434	Pozitive
31	128.txt	0.253286	Pozitive
32	129.txt	0.305000	Pozitive
33	13.txt	0.173797	Pozitive
34	130.txt	-0.002324	Negative
35	131.txt	0.111857	Pozitive
36	132.txt	0.045178	Pozitive
37	133.txt	0.184324	Pozitive
38	134.txt	0.074132	Pozitive
39	135.txt	0.043464	Pozitive
40	136.txt	-0.095370	Negative
41	137.txt	-0.077068	Negative
42	138.txt	-0.201587	Negative
43	139.txt	-0.109224	Negative
44	14.txt	0.204167	Pozitive
45	140.txt	0.131349	Pozitive
46	141.txt	0.042221	Pozitive
47	142.txt	0.061562	Pozitive
48	143.txt	0.058837	Pozitive
49	144.txt	-0.176667	Negative
50	145.txt	0.053169	Pozitive
51	15.txt	0.046364	Pozitive
52	16.txt	0.120696	Pozitive
53	17.txt	0.058381	Pozitive
54	18.txt	0.099490	Pozitive
55	19.txt	0.300000	Pozitive
56	2.txt	0.155375	Pozitive
57	20.txt	-0.066667	Negative
58	21.txt	-0.054712	Negative
59	22.txt	0.054419	Pozitive

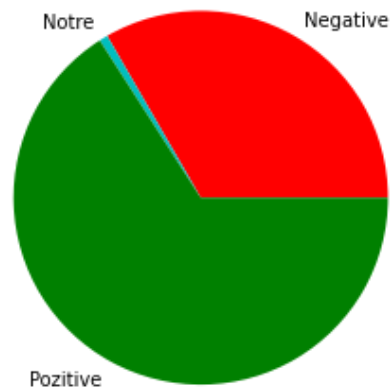
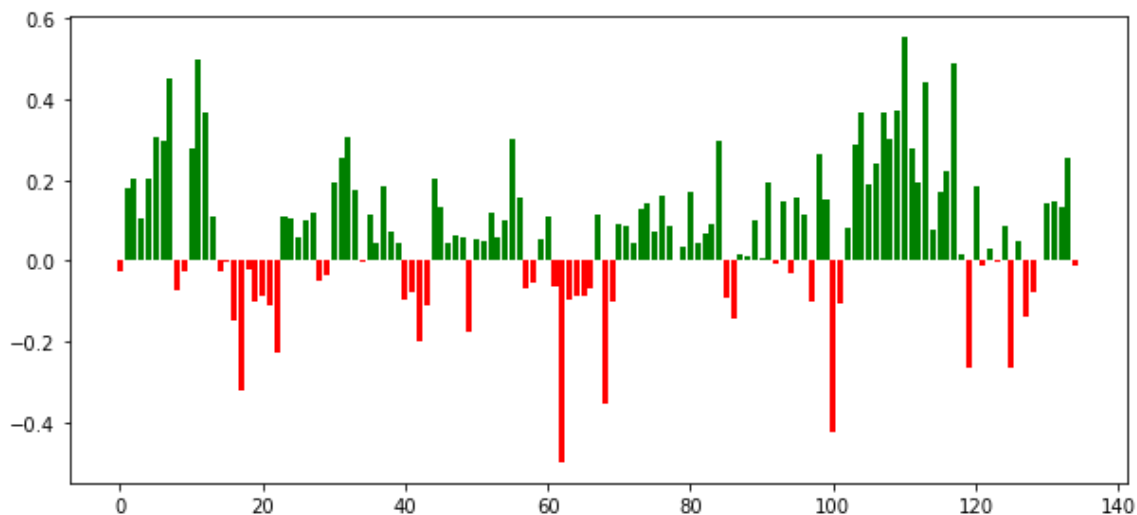
60	23.txt	0.109003	Pozitive
61	24.txt	-0.065268	Negative
62	25.txt	-0.500000	Negative
63	26.txt	-0.097203	Negative
64	27.txt	-0.085714	Negative
65	28.txt	-0.085606	Negative
66	29.txt	-0.066667	Negative
67	3.txt	0.115599	Pozitive
68	30.txt	-0.356250	Negative
69	31.txt	-0.100000	Negative
70	4.txt	0.092563	Pozitive
71	41.txt	0.083586	Pozitive
72	42.txt	0.044318	Pozitive
73	43.txt	0.128379	Pozitive
74	44.txt	0.142468	Pozitive
75	45.txt	0.073512	Pozitive
76	46.txt	0.159172	Pozitive
77	47.txt	0.085833	Pozitive
78	48.txt	0.000000	Notre
79	49.txt	0.034318	Pozitive
80	5.txt	0.168136	Pozitive
81	50.txt	0.045455	Pozitive
82	51.txt	0.065476	Pozitive
83	52.txt	0.088462	Pozitive
84	53.txt	0.297222	Pozitive
85	54.txt	-0.094349	Negative
86	55.txt	-0.145455	Negative
87	56.txt	0.013387	Pozitive
88	57.txt	0.010714	Pozitive
89	58.txt	0.100000	Pozitive
90	59.txt	0.005269	Pozitive
91	6.txt	0.191424	Pozitive
92	60.txt	-0.006964	Negative
93	61.txt	0.145312	Pozitive
94	62.txt	-0.029412	Negative
95	63.txt	0.153938	Pozitive
96	64.txt	0.114706	Pozitive
97	65.txt	-0.100000	Negative
98	66.txt	0.263131	Pozitive
99	67.txt	0.153648	Pozitive
100	68.txt	-0.423077	Negative
101	69.txt	-0.106427	Negative
102	7.txt	0.079985	Pozitive
103	70.txt	0.287540	Pozitive
104	71.txt	0.368211	Pozitive
105	72.txt	0.187302	Pozitive
106	73.txt	0.238528	Pozitive
107	74.txt	0.366551	Pozitive
108	75.txt	0.303428	Pozitive
109	76.txt	0.371044	Pozitive
110	77.txt	0.552381	Pozitive
111	78.txt	0.278947	Pozitive
112	79.txt	0.192512	Pozitive
113	8.txt	0.440909	Pozitive
114	80.txt	0.075167	Pozitive
115	81.txt	0.168454	Pozitive
116	82.txt	0.223160	Pozitive
117	83.txt	0.486508	Pozitive
118	84.txt	0.017700	Pozitive
119	85.txt	-0.264773	Negative
120	86.txt	0.184840	Pozitive

121	87.txt	-0.012370	Negative
122	88.txt	0.029074	Pozitive
123	89.txt	-0.001948	Negative
124	9.txt	0.085263	Pozitive
125	90.txt	-0.266667	Negative
126	91.txt	0.047917	Pozitive
127	92.txt	-0.137500	Negative
128	93.txt	-0.080000	Negative
129	94.txt	-0.000682	Negative
130	95.txt	0.139864	Pozitive
131	96.txt	0.147500	Pozitive
132	97.txt	0.133333	Pozitive
133	98.txt	0.254762	Pozitive
134	99.txt	-0.013782	Negative

In [10]:

```
fig, axs = plt.subplots(2, figsize=(10, 10))
axs[0].bar(BiggerData.index, BiggerData["Score"], color=BiggerData.Class.map({"Pozitive":
'g', "Negative": 'r', "Notre": 'b'}))
axs[1].pie(BiggerData.groupby("Class").count()["Score"], labels = ['Negative', 'Notre', 'Po
zitive'], colors=('r', 'c', 'g'))

plt.show()
```



In [19]:

```
def instantCompute(word):  
    print(TextBlob(word).translate(to = "en"))  
    return TextBlob(word).translate(to = "en").sentiment.polarity  
print(instantCompute(input("If you want,you can enter a word but it must be turkish: ")))
```

If you want,you can enter a word but it must be turkish: iyi
good
0.7

In []: