Projects

September 21, 2023

[ ]:
```
punctuation_chars = ["'", '"', ",", ".", "!", ":", ";", '#', '@']
# lists of words to use
positive_words = []
with open("positive_words.txt") as pos_f:
    for lin in pos_f:
        if lin[0] != ';' and lin[0] != '\n':
            positive_words.append(lin.strip())


negative_words = []
with open("negative_words.txt") as pos_f:
    for lin in pos_f:
        if lin[0] != ';' and lin[0] != '\n':
            negative_words.append(lin.strip())

def strip_punctuation(str):
    for char in str:
        if char in punctuation_chars:
            str = str.replace(char, '')
    return str

def get_pos(str):
    count = 0
    n_str = strip_punctuation(str)
    lst_wrds = n_str.split()
    for wrd in lst_wrds:
        wrd = wrd.lower()
        if wrd in positive_words:
            count+=1
    return count

def get_neg(str):
    count = 0
    n_str = strip_punctuation(str)
    lst_wrds = n_str.split()
    for wrd in lst_wrds:
        wrd = wrd.lower()
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        if wrd in negative_words:
            count+=1
    return count

infile = open('project_twitter_data.csv', 'r')
lines = infile.readlines()
lst_tups = []
for lin in lines[1:]:
    n_line = lin.split()
    l_wrd = n_line[-1].replace(',', ' ').split()
    retweets = l_wrd[-2]
    replies = l_wrd[-1]
    n_line[-1] = ' '.join(l_wrd)
    n_str = ' '.join(n_line)
    n_count = get_neg(n_str)
    p_count = get_pos(n_str)
    net_score = p_count - n_count
    tup = (retweets,replies,p_count,n_count,net_score)
    lst_tups.append(tup)

outfile = open('resulting_data.csv','w')
outfile.write('Number of Retweets, Number of Replies, Positive Score, Negative␣
 ↪Score, Net Score')
outfile.write('\n')
for tup in lst_tups:
    row_string = '{},{},{},{},{}'.format(tup[0],tup[1],tup[2],tup[3],tup[4])
    outfile.write(row_string)
    outfile.write('\n')

infile.close()
outfile.close()
```

[16]:
```
D = {'emp1': {'name': 'Bob', 'job': 'Mgr'},
     'emp2': {'name': 'Kim', 'job': 'Dev'},
     'emp3': {'name': 'Sam', 'job': 'Dev'}}


for Id, info in D.items():
    print(info)
    for key, value in info.items():
        if key == 'name':
            print(value)

tret = [value for Id, info in D.items() for key, value in info.items() if key␣
 ↪== 'name']
print(tret)
```

```
{'name': 'Bob', 'job': 'Mgr'}
```

```
Bob
{'name': 'Kim', 'job': 'Dev'}
Kim
{'name': 'Sam', 'job': 'Dev'}
Sam
['Bob', 'Kim', 'Sam']
```

[18]:
```
def power (x,y):
    if y == 0:
        return 1
    else:
        return x* power(x,y-1)   2.
power(2,3)
```

[18]: 8

[19]:
```
def func(**kwargs):
    print(kwargs["zero"])
func(a=0, zero=8)
```

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8
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