jupyter Ropsten_Eth (unsaved changes)

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Run Code

In [1]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

In [2]:
```
# reading csv files
df2 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten3.csv", delimiter = ",")
df3 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten4.csv", delimiter = ",")
df4 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten5.csv", delimiter = ",")
df5 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten6.csv", delimiter = ",")
df6 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten7.csv", delimiter = ",")
df7 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten8.csv", delimiter = ",")
df8 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten9.csv", delimiter = ",")
df9 = pd.read_table(r"C:\Users\Munish\Desktop\Scraping Eth\ropsten10.csv", delimiter = ",")
```

In [3]:
```
#Combining csv files
dfinal = [df2,df3,df4,df5,df6,df7,df8,df9]
result = pd.concat(dfinal)
result.shape
```

Out[3]:
```
(383, 10)
```

In [4]:
```
result.columns
```

Out[4]:
```
Index(['web-scraper-order', 'web-scraper-start-url', 'txns1', 'txns1-href',
       'transaction_hash', 'status', 'block_confirmations', 'Confirmed_time',
       'timestamp', 'blockno'],
      dtype='object')
```

In [5]:
```
type(result.blockno)
```

Out[5]:
```
pandas.core.series.Series
```

In [6]:
```
result["txns1-href"].nunique()
```

Out[6]:
```
360
```

In [7]:
```
    result["time_in_seconds"] = result["timestamp"]
```

In [8]:
```
def get_index(ans):
    i = 0;
    while(ans[i]!= " "):
        i+=1;
    return i

def convertStr(ans):
    space = get_index(ans)
    time  = int(ans[:space])
    if(ans[space+1] == "m"):
        time *= 60
    elif (ans[space+1] == "h"):
        time = time*60*60
    return time
```

In [9]:
```
arr = []
for i in range(0,result.shape[0]):
    arr.append( convertStr(result['timestamp'].iloc[i]))
```

In [10]:
```
 result["time_in_seconds"] = arr
```

In [11]:
```
result["time_in_seconds"].nunique()
```

Out[11]:
```
11
```

In [ ]:
```

```

In [12]:
```
def convertBlcks(ans):
    time  = int(ans[:2])
    return time


arr_new = []
for i in range(0,result.shape[0]):
    arr_new.append( convertStr(result['block_confirmations'].iloc[i]))
```

In [13]:
```
result["blockss"] = arr_new
```

In [14]:
```
arr_avg = []
for i in range(0,result.shape[0]):
    time = result["time_in_seconds"].iloc[i]
    blocks = result["blockss"].iloc[i]
    arr_avg.append(7*time/blocks)
result["time_per_7blocks"] = arr_avg
```

In [15]:
```
result["time_per_7blocks"].shape
```

Out[15]: (383,)

In [16]:
```
result.shape
```

Out[16]: (383, 13)

In [17]:
```
result["time_per_7blocks"].describe()
```

Out[17]:
```
count    383.000000
mean      68.048145
std       22.668414
min        1.272727
25%       70.000000
50%       75.000000
75%       80.000000
max       93.333333
Name: time_per_7blocks, dtype: float64
```