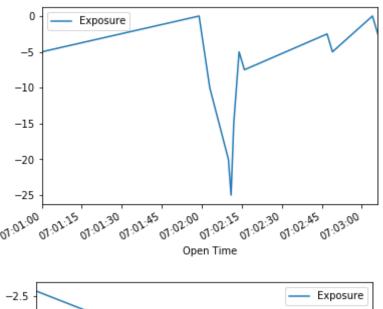
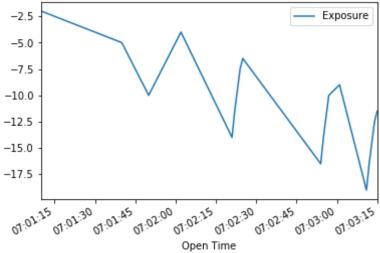
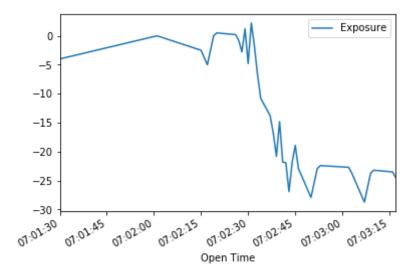
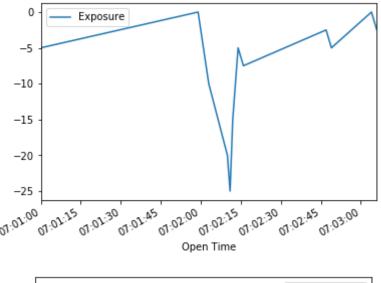
```
In [3]: import pandas as pd
        import numpy as np
        %matplotlib inline
        import matplotlib.pyplot as plt
        import datetime
        from dateutil.relativedelta import relativedelta
        from datetime import date
        d parser = lambda x: pd.datetime.strptime(x,'%Y.%m.%d %H:%M:%S')
        df = pd.read excel (r'C:\Users\omarf\OneDrive\Desktop\TRADING.xlsx', pa
        rse dates=['Open Time'], date parser=d parser)
        #deals = pd.read excel (r'C:\Users\omarf\OneDrive\Desktop\deals.xlsx',
         parse dates=['Close Time'], date parser=d parser)
        #EXPOSURE
        df['Volume2'] = np.where(df['Type'] == 'sell', df['Volume'] *-1, df['Vo
        lume'l)
        df['Exposure'] = df.groupby(['Symbol'])['Volume2'].cumsum()
        #DURATION
        df['Open Time'] = pd.to datetime(df['Open Time']).astype('datetime64[n
        df['Close Time'] = pd.to datetime(df['Close Time']).astype('datetime64
        [ns]')
        df['Duration'] = df['Close Time'] - df['Open Time']
        df.set index('Open Time')
        #CLOSED PROFIT
        df.head()
Out[3]:
                                                                       Close Profit
             Open
                   Ticket
                                                              Close
                          Client Symbol Type Volume Open Price
```

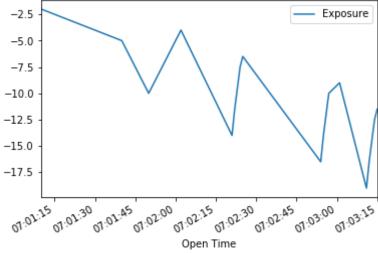
		Time	Number	Ollelle	Эушьы	ıype	V OIUIII C	Ohen Eure	Time	Price	FIUIIL
		Open Time	Ticket Number	Client	Symbol	Туре	Volume	Open Price	Close Time	Close Price	Profit
	0	2020- 07-21 07:01:00	11112	706111	EURUSD	sell	5.0	1.14377	2020- 07-21 09:14:07	1.14286	-300
	1	2020- 07-21 07:01:10	11113	706112	GBPUSD	sell	2.0	1.26944	2020- 07-21 09:19:26	1.26898	100
	2	2020- 07-21 07:01:20	11114	707111	GBPUSD	sell	1.0	1.26992	2020- 07-21 09:19:18	1.26898	100
	3	2020- 07-21 07:01:30	11115	460600	XAUUSD	sell	4.0	1838.85000	2020- 07-21 09:19:33	1837.35000	-300
	4	2020- 07-21 07:01:40	11116	707111	GBPUSD	sell	2.0	1.27056	2020- 07-21 09:19:30	1.26898	-250
	4										•
In [4]:	GB XA EU GB	PUSD = UUSD = RUSD.pl PUSD.pl	<pre>df[df[' df[df[' ot(x='0 ot(x='0</pre>	Symbol Symbol pen Ti pen Ti	'] == 'G	BPUSI AUUSI Expo Expo)'].cop)'].cop osure') osure')	y().reset y().reset y().reset	_ _index()	
Out[4]:	<m< td=""><td>atplotl</td><td>ib.axes</td><td>subp</td><td>lots.Axe</td><td>sSubp</td><td>olot at</td><td>0x1eeb4d</td><td>cadc8></td><td></td><td>△ ▼</td></m<>	atplotl	ib.axes	subp	lots.Axe	sSubp	olot at	0x1eeb4d	cadc8>		△ ▼

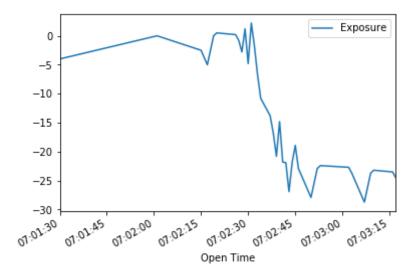




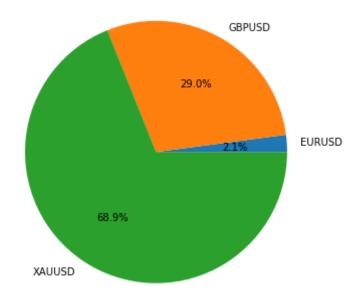






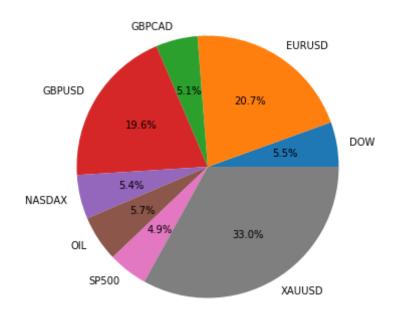


```
Client Profit
          4 707111 1401
          0 460600
                    -781
          1 540303
                    -800
          2 706111
                    -945
          3 706112 -2915
         profit_symbol = df.groupby(['Symbol']).sum()["Profit"].reset_index().so
In [7]:
         rt values(['Profit'], ascending=[False])
         profit symbol
Out[7]:
             Symbol Profit
          1 GBPUSD -135
          2 XAUUSD -835
          0 EURUSD -3070
In [10]: profittrade = df[df.Profit > 0]
         profittrade = profittrade.groupby(['Symbol']).sum()["Profit"].reset_ind
         ex()
         my labels = profittrade['Symbol']
         plt.pie(profittrade['Profit'], labels=my labels, autopct='%1.1f%', rad
         ius=1.5)
         plt.show()
```



```
In [260]: total_volume = df.groupby(['Symbol']).sum()["Volume"].reset_index()

my_labels = total_volume['Symbol']
plt.pie(total_volume['Volume'], labels=my_labels, autopct='%1.1f%%', ra
dius=1.5 )
plt.savefig('Lots.png')
```



In []:

In [261]: profit_trade= df.sort_values(by='Profit', ascending=False).head()
profit_trade[['Ticket Number', 'Client', 'Type', 'Symbol', 'Volume', 'Pr
ofit']]

Out[261]:

	Ticket Number	Client	Type	Symbol	Volume	Profit
32	11144	707111	sell	XAUUSD	4.0	767
44	11156	460600	buy	XAUUSD	5.0	654
107	11219	303221	sell	NASDAX	2.0	600
20	11132	707111	buy	XAUUSD	0.5	533
53	11165	707111	buy	XAUUSD	0.5	501

In [262]: scalping_trade= df.sort_values(by='Duration', ascending=True).head()
 scalping_trade[['Ticket Number','Client','Type','Symbol', 'Volume', 'Pr

ofit', 'Open Time', 'Close Time', 'Duration']].head()

Out[262]:

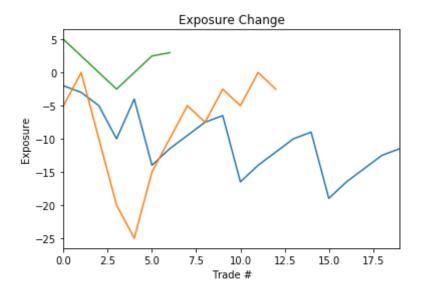
	Ticket Number	Client	Туре	Symbol	Volume	Profit	Open Time	Close Time	Duration
47	11159	706112	buy	EURUSD	5.0	-340	2020-07-21 10:18:15	2020-07-21 10:18:18	00:00:03
61	11173	706112	buy	EURUSD	5.0	-340	2020-07-21 10:18:15	2020-07-21 10:18:18	00:00:03
14	11126	706112	buy	EURUSD	5.0	-340	2020-07-21 10:18:15	2020-07-21 10:18:18	00:00:03
75	11187	706112	buy	GBPCAD	5.0	-340	2020-07-21 10:18:15	2020-07-21 10:18:18	00:00:03
44	11156	460600	buy	XAUUSD	5.0	654	2020-07-29 15:04:58	2020-07-29 15:05:02	00:00:04

In [267]:
symbol = df[(df['Symbol'] == 'GBPUSD')].copy().reset_index()
symbol2 = df[(df['Symbol'] == 'EURUSD')].copy().reset_index()
symbol3 = df[(df['Symbol'] == 'GBPCAD')].copy().reset_index()
symbol['Total Profit'] = symbol.groupby(['Symbol'])['Profit'].cumsum()
symbol.head()

Out[267]:

	index	Open Time	Ticket Number	Client	Symbol	Туре	Volume	Open Price	Close Time	Close Price	Profit
0	1	2020- 07-21 07:05:07	11113	706112	GBPUSD	sell	2.0	1.26944	2020- 07-21 09:19:26	1.26898	100
1	2	2020- 07-21 07:17:26	11114	707111	GBPUSD	sell	1.0	1.26992	2020- 07-21 09:19:18	1.26898	100
2	4	2020- 07-21 09:07:11	11116	707111	GBPUSD	sell	2.0	1.27056	2020- 07-21 09:19:30	1.26898	-250
3	5	2020- 07-21 09:11:09	11117	706111	GBPUSD	sell	5.0	1.26957	2020- 07-21 09:19:22	1.26898	50

```
Open
                              Ticket
                                                                   Open
                                                                           Close
                                                                                  Close
                                     Client
                                            Symbol Type Volume
                                                                                        Profit
               index
                       Time
                             Number
                                                                   Price
                                                                           Time
                                                                                   Price
                       2020-
                                                                           2020-
                       07-21
                  8
                               11120 706111 GBPUSD
                                                     buy
                                                             6.0 1.26898
                                                                           07-21 1.26978
                                                                                         -300
                     09:19:14
                                                                         09:19:30
In [268]:
           symbol['Total Profit'] = symbol['Profit'].cumsum()
            symbol['Total Profit'].plot()
           plt.title("Profit Change")
           plt.xlabel("Trade #")
           plt.ylabel("Profit")
           plt.savefig('Profit.png')
                                    Profit Change
               200
               -200
            Profit
               -400
               -600
               -800
                  0.0
                        2.5
                              5.0
                                    7.5
                                         10.0
                                               12.5
                                                     15.0
                                                           17.5
                                       Trade #
In [276]:
           symbol['Exposure'].plot()
           symbol2['Exposure'].plot()
            symbol3['Exposure'].plot()
           plt.title("Exposure Change")
           plt.xlabel("Trade #")
           plt.ylabel("Exposure")
           plt.savefig('Exposure.png')
```



```
In [270]: #EXPORT TO EXCEL
          #FILE EXPORTER
          writer = pd.ExcelWriter (r'C:\Users\omarf\OneDrive\Desktop\zzz9.xlsx',
          engine='xlsxwriter')
          #INSERT STATS TO EXCEL
          profit client.to excel(writer, sheet name = 'Trade Monitoring', startco
          l=0, startrow=0, index=False)
          profit symbol.to excel(writer, sheet name = 'Trade Monitoring', startco
          l=0, startrow=10, index=False)
          total volume.to excel(writer, sheet name = 'Trade Monitoring', startcol
          =0, startrow=40, index=False)
          profit trade.to excel(writer, sheet name = 'Trade Monitoring', startcol
          =0, startrow=60, index=False)
          scalping trade.to excel(writer, sheet name = 'Trade Monitoring', startc
          ol=0, startrow=80, index=False)
          writer.sheets['Trade Monitoring'].insert image('K1', 'Lots.png')
          writer.sheets['Trade Monitoring'].insert image('K1', 'Profit.png')
```

```
plt.savefig('Lots.png')
    writer.save()
    <Figure size 432x288 with 0 Axes>

In []:
    In []:
```