python 小作业

一、5支股票k线图(2016.1-2016.3)



图 1 000004 股票 k 线图



图 2 000005 股票 k 线图



图 3 000006 股票 k 线图



图 4 000007 股票 k 线图



图 5 000008 股票 k 线图

二、 python 代码

```
from pandas import DataFrame, Series
import pandas as pd; import numpy as np
from matplotlib import dates as mdates
from matplotlib import ticker as mticker
from matplotlib import pyplot as plt
from mplfinance.original_flavor import candlestick2_ochl
import datetime as dt
filepath = '000008.csv'
startdate = dt.date(2016, 1, 1)
enddate = dt.date(2016, 3, 30)
def readdata(path,eday):
   df = pd.read_csv(path,index_col = 0)
   df = df[df.index < eday.strftime('%Y-%m-%d')]</pre>
   return df
df = readdata(filepath,enddate)
fig = plt.figure(facecolor='#07000d',figsize=(10,5))
ax1 = plt.subplot(facecolor='#07000d')
#绘制#线图k
candlestick2_ochl(ax = ax1,
               opens = df["open"],
               closes = df["close"],
               highs = df["high"],
               lows = df["low"],
               width=0.5, colorup='r', colordown='g', alpha=0.75)
a = np.zeros(len(df.index))
ax1.grid(True, color='w')
ax1.yaxis.label.set_color("w")
ax1.spines['bottom'].set_color("#5998ff")
ax1.spines['top'].set_color("#5998ff")
ax1.spines['left'].set_color("#5998ff")
ax1.spines['right'].set_color("#5998ff")
```

```
ax1.tick_params(axis='y', colors='w')
plt.gca().yaxis.set_major_locator(mticker.MaxNLocator(prune='upper'))
ax1.tick_params(axis='x', colors='w')
plt.ylabel('Stock price and Volume')
#绘制成交量#
volumeMin = 0
ax1v = ax1.twinx()
ax1v.fill_between(df.index.values,volumeMin, df.vol.values,
   facecolor='#00ffe8', alpha=.4)
ax1v.axes.yaxis.set_ticklabels([])
ax1v.grid(False)
ax1.xaxis.set_major_locator(mticker.MaxNLocator(10))
ax1v.set_ylim(0, 3*df.vol.values.max())
ax1v.spines['bottom'].set_color("#5998ff")
ax1v.spines['top'].set_color("#5998ff")
ax1v.spines['left'].set_color("#5998ff")
ax1v.spines['right'].set_color("#5998ff")
ax1v.tick_params(axis='x', colors='w')
ax1v.tick_params(axis='y', colors='w')
plt.show()
```