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Prog Lang CpE
3/27/22

Project 2

```
# Scraping the Yahoo Finance
import requests # Python http for humans
from datetime import datetime # use for date and time
nr=i=0
# ticker names
ticker=["GOOG","AAPL","MSFT","AMZN","INTC","QCOM","COST","SNAP","BABA","NFLX"]
#instead of using an object, i went and used a huge list to link the names and
values
#the index would be the value and stored there would be the name
tdata=[0] * 5000
data=[] #saves prices
subtotal=0
while nr < 10:
    url = "https://finance.yahoo.com/quote/%s?p=%s" % (ticker[nr],ticker[nr]);
    f = requests.get(url)
    contents = f.text
    nr += 1
    i = contents.find('data-field="regularMarketPrice" data-trend="none"
data-pricehint="2" value="', i)
    if i == -1:
        break
    # Find the 'Value' pre mark
    start = contents.find('data-field="regularMarketPrice" data-trend="none"
data-pricehint="2"', i)
    # Find the 'Value' post mark
    end = contents.find('" active', i)
    value = contents[start+76:end]
    value=value.replace('&amp; ','')
    data.append(value)
    tdata[int(float(value))] = ticker[nr-1]
    # Found name + title ? => display
    if len(ticker)>0 and len(value)>0:
        string = "%d)  %s  = $%s " % (nr,ticker[nr-1],value);
        print(string)
        #print('=' * len(string))
    i += 1

print("============================================")
string = "Before sort: %s = $%s ... %s = $%s" %
(ticker[0],data[0],ticker[9],data[9]);
print(string)
data.sort(key = float, reverse = True)
string = "After sort: %s = $%s ... %s = $%s" %
(tdata[int(float(data[0]))],data[0],tdata[int(float(data[9]))],data[9]);
print(string)
print("============================================")

diff=nr=0
while nr < 10:
    total=i=0
    while total < (10000+diff): #calculate for specific budgets
        total = float(data[nr]) * i
```

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        i += 1
    diff = 10000-total #calculate difference left for next run
    subtotal += total
    string = "%d)  %s    %d x $%s =  %.2f " %
(nr+1,tdata[int(float(data[nr]))],(i-1),data[nr],total)
    print(string)
    nr += 1

print("============================================")
string = "MRA Total Account value = %.2f" % subtotal
print(string)
now = datetime.now()
string = now.strftime("%m/%d/%Y %H:%M:%S")
print("on ", string)
```

```
In [100]: runfile('C:/Users/mra17/.spyder-py3/temp.py', wdir='C:/Users/mra17/.spyder-py3')
1)  GOOG  = $2830.43
2)  AAPL  = $3295.47
3)  MSFT  = $174.72
4)  AMZN  = $112.99
5)  INTC  = $276.92
6)  QCOM  = $119.67
7)  COST  = $221.47
8)  SNAP  = $146.04
9)  BABA  = $59.92
10)  NFLX  = $123.75
============================================
Before sort: GOOG = $2830.43 ... NFLX = $123.75
After sort: AAPL = $3295.47 ... BABA = $59.92
============================================
1)  AAPL    4 x $3295.47 =  13181.88
2)  GOOG    3 x $2830.43 =  8491.29
3)  INTC    42 x $276.92 =  11630.64
4)  COST    38 x $221.47 =  8415.86
5)  MSFT    67 x $174.72 =  11706.24
6)  SNAP    57 x $146.04 =  8324.28
7)  NFLX    95 x $123.75 =  11756.25
8)  QCOM    69 x $119.67 =  8257.23
9)  AMZN    104 x $112.99 =  11750.96
10)  BABA    138 x $59.92 =  8268.96
============================================
MRA Total Account value = 101783.59
on  03/27/2022 23:13:53

In [101]:
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Time Spent = 3 stressful hours