

New York University
School of Continuing and Professional Studies
Division of Programs in Information Technology

Introduction to Python
Session 6 Homework Solutions

6.1 Open / Close Sort Function

```
def by_closelessopen(line):
    items = line.split(',')
    open = items[2]
    close = items[5]
    diff = float(open) - float(close)
    return diff

stock_price_file = '../python_data/stock_prices.csv'

lines = open(stock_price_file).readlines()[1:]

for line in sorted(lines, key=by_closelessopen)[0:5]:
    line = line.rstrip()
    ticker, date, open, high, low, close, volume = line.split(',')
    print('{{ {} ({}): {} ({}->{})'.format(ticker,
                                           date,
                                           (round(float(close)-float(open), 2)),
                                           open,
                                           close)))
```

6.2 Read a config from a multidimensional structure. See assignment.

```
from config import conf

for device_dict in conf:
    domain = device_dict['domain']
    host = device_dict['database']['host']
    port = device_dict['database']['port']
    plugins = device_dict['plugins']
    print('domain: {}'.format(domain))
    print('db_host: {}'.format(host))
    print('db_port: {}'.format(port))
    print('plugins: ')
    for plugin in plugins:
        print(' {}'.format(plugin))
    print()
    print()
    print()
```
