```
In [ ]: | ###necessary libraries
import pandas as pd
import glob
import os
from datetime import datetime, timezone
import re
import numpy as np
import itertools
from functools import reduce
##folder of stockprice
path stockprices = r'C:\Users\victo\Master Thesis\stockprice data\volvo\daily stock
prices'
price return = []
volume_onehot = []
for file in glob.iglob(path_stockprices + '\*.csv'):
    df daily stock prices = pd.read csv(file,
                                         sep=',',
    ## calculating price difference between close and open prices
    df_daily_stock_prices['return'] = df_daily_stock_prices['CLOSE'] - df_daily_sto
ck prices['OPEN'].shift(1)
    df daily stock prices['return'] = df daily stock prices['return'].fillna(0)
    ## one hot encoding of stock price differences
    for r in df daily stock prices['return']:
        if r > 0:
            stock return = 1
            price return.append(stock return)
            stock return = 0
            price return.append(stock return)
    df daily stock prices['return one hot encoded'] = price return
    ## calculating if volume has grown from one minute to the other
    df daily stock prices['volume difference'] = df daily stock prices['VOLUME'] -
df daily stock prices['VOLUME'].shift(1)
    df daily stock prices['volume difference'] = df daily stock prices['volume diff
erence'].fillna(0)
    ## one hot encoding of volume
    for v in df_daily_stock_prices['volume_difference']:
        if v > 0:
            volume = 1
            volume onehot.append(volume)
            volume = 0
            volume_onehot.append(volume)
    df daily stock prices['volume one hot encoded'] = volume onehot
    ##saving file
    df daily stock prices.to csv(r'C:\Users\victo\Master Thesis\stockprice data\vol
vo\daily stockpricefiles with return\volvoprices with onehotencoding.csv', index=Fa
    print('File has been saved!')
```

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