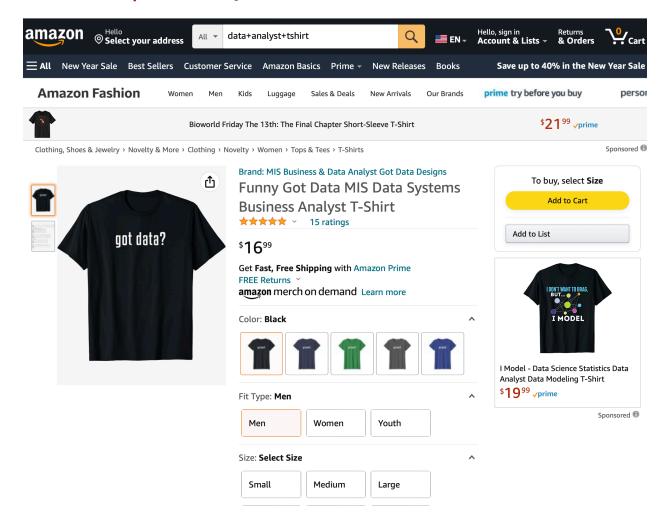
This Python program checks the price of an Amazon item everyday.

import libraries

from bs4 import BeautifulSoup
import requests
import smtplib
import time
import datetime

connect to website

URL = 'https://www.amazon.com/Funny-Data-Systems-BusinessAnalyst/dp/B07FNW9FGJ/ref=sr_1_14?
crid=1293SFHKWAVM9&keywords=data%2Banalyst%2Btshirt&qid=16725110
25&sprefix=data%2Banalyst%2Btshirt%2Caps%2C145&sr=8-14'
headers = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/16.1
Safari/605.1.15", "Accept-Encoding":"gzip, deflate",
"Accept":"text/html,application/xhtml+xml,application/
xml;q=0.9,*/*;q=0.8", "DNT":"1","Connection":"close", "Upgrade-Insecure-Requests":"1"}



```
page=requests.get(URL, headers=headers)
soup1 = BeautifulSoup(page.content, "html.parser")
soup2 = BeautifulSoup(soup1.prettify(), "html.parser")
print(soup2)
```

```
:!DOCTYPE html>
shtml class="a-no-js" data-19ax5a9jf="dingo" lang="en-us">
:!-- sp:feature:head-start -->
:head>
script>
  var aPageStart = (new Date()).getTime();
 </script>
meta charset="utf-8"/>
:!-- sp:end-feature:head-start -->
:!-- sp:feature:csm:head-open-part1 -->
script type="text/javascript">
  var ue_t0=ue_t0||+new Date();
 </script>
:!-- sp:end-feature:csm:head-open-part1 -->
:!-- sp:feature:cs-optimization -->
meta content="on" http-equiv="x-dns-prefetch-control"/>
:link href="https://images-na.ssl-images-amazon.com" rel="dns-prefetch"/>
:link href="https://m.media-amazon.com" rel="dns-prefetch"/>
link href-"httns://completion amazon com" rel-"dns-prefetch"/>
```

```
# get information
title = soup2.find(id='productTitle').get_text()
print(title)
```

Funny Got Data MIS Data Systems Business Analyst T-Shirt

```
price =
soup2.find(id='corePriceDisplay_desktop_feature_div').get_text()
```

\$16.99

\$

16

.

99

```
# format information
price = price.split()[0][1:]
title = title.strip()
print(title)
print(price)
```

Funny Got Data MIS Data Systems Business Analyst T-Shirt 16.99

```
type(price)
# get date stamp
today = datetime.date.today()
print(today)
# create csv file
import csv
# define csv columns
header = ['Title', 'Price', 'Date']
#define csv data
data = [title, price, today]
type(data)
# write to csv file
with open('/Users/jan/desktop/data/jy/future/codesamples/python/
<u>Amazon/AmazonWebScraperDataset.csv', 'w', newline='',</u>
encoding='UTF8') as f:
    writer = csv.writer(f)
    writer.writerow(header)
    writer.writerow(data)
#import csv file
import pandas as pd
df = pd.read_csv('/Users/jan/desktop/data/jy/future/codesamples/
python/Amazon/AmazonWebScraperDataset.csv')
print(df)
                                   Title Price
```

0 Funny Got Data MIS Data Systems Business Analy... 16.99 2022-12-31

```
# append data to csv file
with open('/Users/jan/desktop/data/jy/future/codesamples/python/
Amazon/AmazonWebScraperDataset.csv', 'a+', newline='',
encoding='UTF8') as f:
    writer = csv.writer(f)
    writer.writerow(data)
#import csv file
import_pandas_as_pd
df = pd.read_csv('/Users/jan/desktop/data/jy/future/codesamples/
pvthon/Amazon/AmazonWebScraperDataset.csv')
print(df)
  Title Price Date 0 Funny Got Data MIS Data Systems Business Analy... 16.99 2022-12-31
  1 Funny Got Data MIS Data Systems Business Analy... 16.99 2022-12-31
def check price():
    URL = 'https://www.amazon.com/Funny-Data-Systems-Business-
Analyst/dp/B07FNW9FGJ/ref=sr 1 14?
crid=1293SFHKWAVM9&keywords=data%2Banalyst%2Btshirt&gid=16725110
25&sprefix=data%2Banalyst%2Btshirt%2Caps%2C145&sr=8-14
    headers = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac
OS X 10 15 7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/
16.1 Safari/605.1.15", "Accept-Encoding": "gzip, deflate",
"Accept": "text/html,application/xhtml+xml,application/
xml;q=0.9,*/*;q=0.8", "DNT":"1","Connection":"close", "Upgrade-
Insecure-Requests":"1"}
    page=requests.get(URL, headers=headers)
    soup1 = BeautifulSoup(page.content, "html.parser")
    soup2 = BeautifulSoup(soup1.prettify(), "html.parser")
   <u># get information</u>
    title = soup2.find(id='productTitle').get text()
soup2.find(id='corePriceDisplay desktop feature div').get text()
    # format information
    price = price.split()[0][1:]
    title = title.strip()
```

```
# get date stamp
    today = datetime.date.today()
    # define csv columns
    header = ['Title', 'Price', 'Date']
    #define csv data
    data = [title, price, today]
    # append data to csv file
    with_open('/Users/jan/desktop/data/jy/future/codesamples/
python/Amazon/AmazonWebScraperDataset.csv', 'a+', newline='',
encoding='UTF8') as f:
        writer = csv.writer(f)
        writer.writerow(data)
# check price every 5 seconds
while (True):
    check price()
    time.sleep(5)
# manually stop running after 10 seconds
KeyboardInterrupt
                                 Traceback (most recent call last)
/var/folders/0y/2sf9nfpn6c3_nxjt5ys__r180000gq/T/ipykernel_49427/364068478.py in <module
     1 while (True):
     check price()
  --> 3
         time.sleep(5)
KeyboardInterrupt:
```

df = pd.read_csv('/Users/jan/desktop/data/jy/future/codesamples/
python/Amazon/AmazonWebScraperDataset.csv')
print(df)

```
Title Price Date

0 Funny Got Data MIS Data Systems Business Analy... 16.99 2022-12-31

1 Funny Got Data MIS Data Systems Business Analy... 16.99 2022-12-31

2 Funny Got Data MIS Data Systems Business Analy... 16.99 2022-12-31

3 Funny Got Data MIS Data Systems Business Analy... 16.99 2022-12-31
```