```
# import libraries
from bs4 import BeautifulSoup
import requests
import time
import datetime
import smtplib
# Connect to Website and pull in data
URL = 'https://www.amazon.com/Funny-Data-Systems-Business-Analyst/dp/B07FNW9FGJ/ref=sr_1_3?dchild=1&keywords=data%2Banalyst%2Btshirt&qid=162
headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.108 Safari/537.3
page = requests.get(URL, headers=headers)
soup1 = BeautifulSoup(page.content, "html.parser")
soup2 = BeautifulSoup(soup1.prettify(), "html.parser")
title = soup2.find(id='productTitle').get_text()
price = soup2.find(id='priceblock_ourprice').get_text()
print(title)
print(price)
                        Funny Got Data MIS Data Systems Business Analyst T-Shirt
                         $16.99
# Clean up the data a little bit
price = price.strip()[1:]
title = title.strip()
print(title)
print(price)
     Funny Got Data MIS Data Systems Business Analyst T-Shirt
# Create a Timestamp for your output to track when data was collected
import datetime
today = datetime.date.today()
print(today)
     2021-08-21
# Create CSV and write headers and data into the file
import csv
header = ['Title', 'Price', 'Date']
data = [title, price, today]
with open('AmazonWebScraperDataset.csv', 'w', newline='', encoding='UTF8') as f:
   writer = csv.writer(f)
    writer.writerow(header)
   writer.writerow(data)
```

```
import pandas as pd
df = pd.read_csv(r'C:\Users\pAmazonWebScraperDataset.csv')
print(df)
#Now we are appending data to the csv
with open('AmazonWebScraperDataset.csv', 'a+', newline='', encoding='UTF8') as f:
    writer = csv.writer(f)
   writer.writerow(data)
#Combine all of the above code into one function
def check_price():
    URL = 'https://www.amazon.com/Funny-Data-Systems-Business-Analyst/dp/B07FNW9FGJ/ref=sr_1_3?dchild=1&keywords=data%2Banalyst%2Btshirt&qid=:
    headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.108 Safari/53
    page = requests.get(URL, headers=headers)
    soup1 = BeautifulSoup(page.content, "html.parser")
    soup2 = BeautifulSoup(soup1.prettify(), "html.parser")
    title = soup2.find(id='productTitle').get_text()
    price = soup2.find(id='priceblock_ourprice').get_text()
    price = price.strip()[1:]
    title = title.strip()
    import datetime
    today = datetime.date.today()
    import csv
    header = ['Title', 'Price', 'Date']
    data = [title, price, today]
    with open('AmazonWebScraperDataset.csv', 'a+', newline='', encoding='UTF8') as f:
        writer = csv.writer(f)
        writer.writerow(data)
# Runs check_price after a set time and inputs data into your CSV
while(True):
    check_price()
    time.sleep(86400)
import pandas as pd
df = pd.read_csv(r'C:\Users\AmazonWebScraperDataset.csv')
print(df)
# If uou want to try sending yourself an email (just for fun) when a price hits below a certain level you can try it
# out with this script
def send_mail():
    server = smtplib.SMTP_SSL('smtp.gmail.com',465)
    server.ehlo()
    #server.starttls()
    server.ehlo()
    canuan login/'nahilakhtanQJ@gmail com' 'vvvvvvvvvvvv'\
```

```
subject = "The Shirt you want is below $15! Now is your chance to buy!"
body = "Alex, This is the moment we have been waiting for. Now is your chance to pick up the shirt of your dreams. Don't mess it up! Link
msg = f"Subject: {subject}\n\n{body}"
server.sendmail(
    'nabilakhtar92@gmail.com',
    msg
)
```