```
# 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=1626655184&sr=8-3&customId=B0752XJYNL&th=1'


headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.108 Safari/537.36", "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")


title = soup2.find(id='productTitle').get_text()


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

```
print(title)
print(price)




# Clean up the data a little bit

price = price.strip()[1:]
title = title.strip()

print(title)
print(price)
# Create a Timestamp for your output to track when data was collected

import datetime

today = datetime.date.today()

print(today)

# 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\David\AmazonWebScraperDataset.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=1626655184&sr=8-3&customId=B0752XJYNL&th=1'

    headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.108 Safari/537.36", "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")

    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\David\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()
    server.login('David.demedeiros@gmail.com','xxxxxxxxxxxxxx')


    subject = "The Shirt you want is below $15! Now is your chance to buy!"
    body = "David, 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 here: https://www.amazon.com/Funny-Data-Systems-Business-Analyst/dp/B07FNW9FGJ/ref=sr_1_3?dchild=1&keywords=data+analyst+tshirt&qid=1626655184&sr=8-3"


    msg = f"Subject: {subject}\n\n{body}"


    server.sendmail(
        'David.demedeiros@gmail.com',
        msg


    )
```