

A dark blue vertical bar on the left side of the page. A blue arrow points to the right from the bar, containing the date.

5/17/2021

# AI Diploma

## Assessment Six

Several thin, curved lines in dark blue and light grey originate from the bottom left and curve upwards and to the right.

Abdelrahman Adel

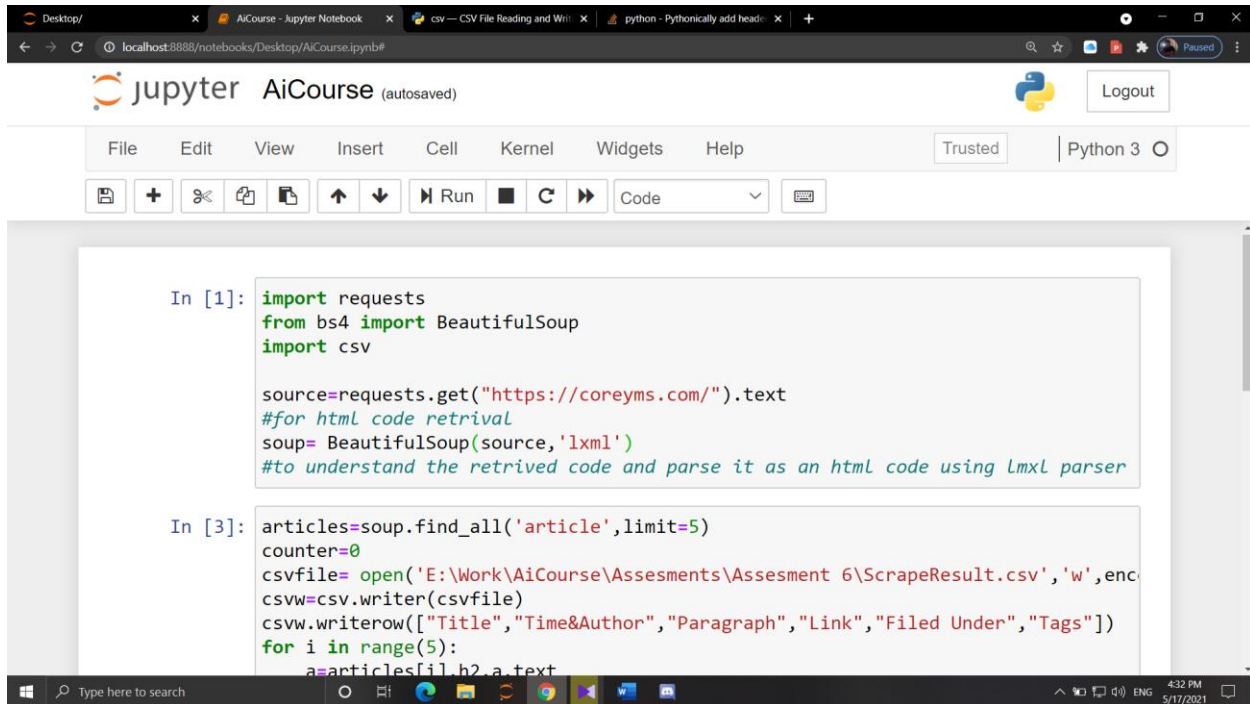
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## Task one:

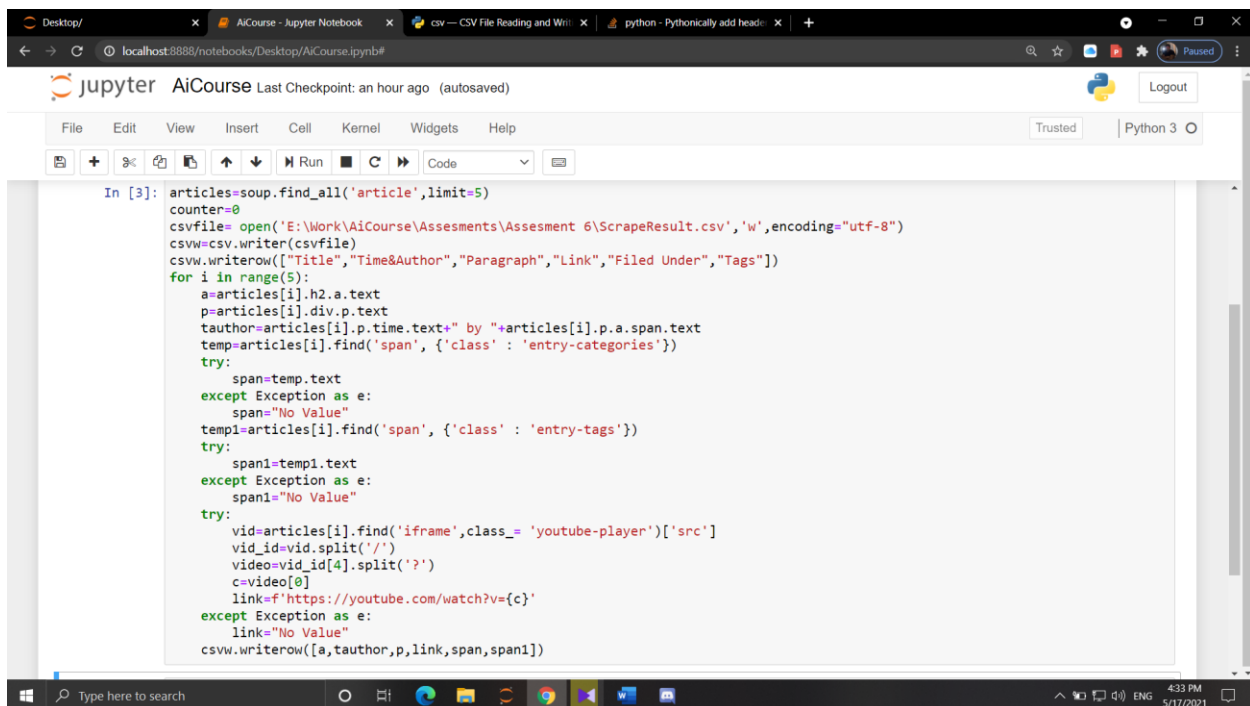
Scrapping the first five articles from <https://coreyms.com/>, and saving the results to csv file.



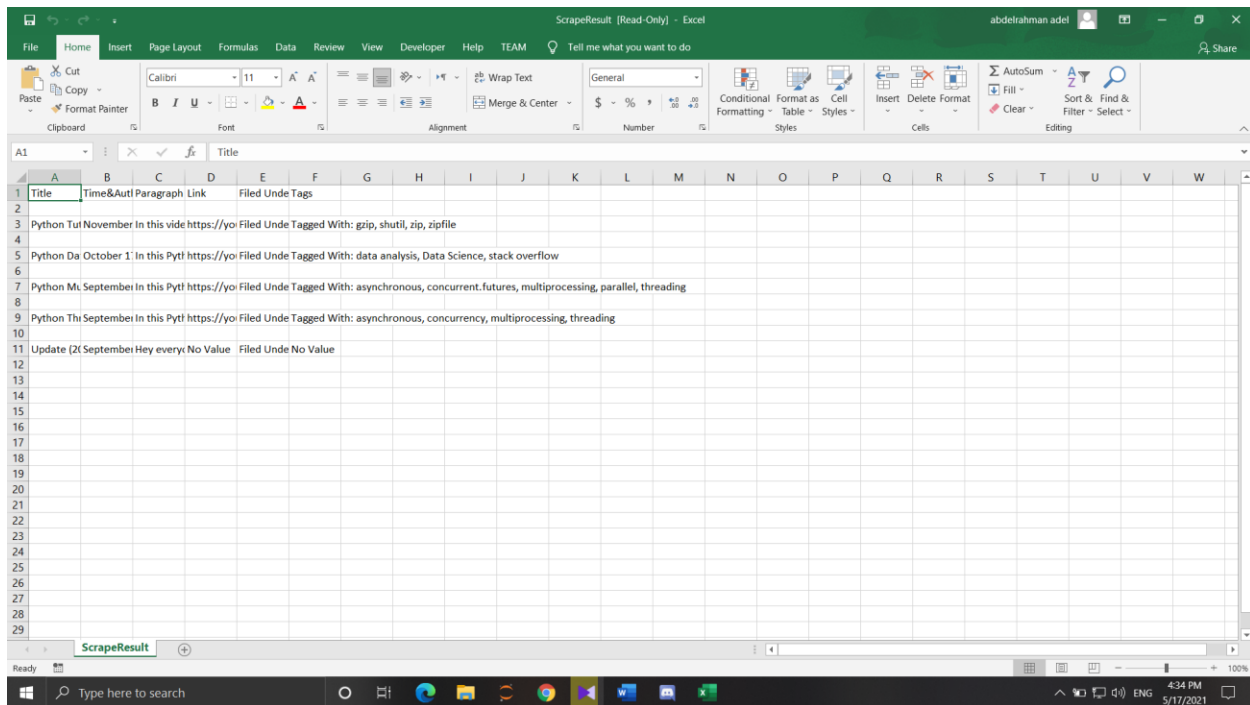
```
In [1]: import requests
from bs4 import BeautifulSoup
import csv

source=requests.get("https://coreyms.com/").text
#for html code retrival
soup= BeautifulSoup(source,'lxml')
#to understand the retrived code and parse it as an html code using lxml parser

In [3]: articles=soup.find_all('article',limit=5)
counter=0
csvfile= open('E:\Work\AiCourse\Assesments\Assesment 6\ScrapeResult.csv','w',enc
csvw=csv.writer(csvfile)
csvw.writerow(["Title","Time&Author","Paragraph","Link","Filed Under","Tags"])
for i in range(5):
    a=articles[i].h2.a.text
```



```
In [3]: articles=soup.find_all('article',limit=5)
counter=0
csvfile= open('E:\Work\AiCourse\Assesments\Assesment 6\ScrapeResult.csv','w',encoding="utf-8")
csvw=csv.writer(csvfile)
csvw.writerow(["Title","Time&Author","Paragraph","Link","Filed Under","Tags"])
for i in range(5):
    a=articles[i].h2.a.text
    p=articles[i].div.p.text
    tauthor=articles[i].p.a.span.text
    temp=articles[i].find('span', {'class' : 'entry-categories'})
    try:
        span=temp.text
    except Exception as e:
        span="No Value"
    temp1=articles[i].find('span', {'class' : 'entry-tags'})
    try:
        span1=temp1.text
    except Exception as e:
        span1="No Value"
    try:
        vid=articles[i].find('iframe',class_='youtube-player')['src']
        vid_id=vid.split('/')
        video=vid_id[4].split('?')
        c=video[0]
        link=f'https://youtube.com/watch?v={c}'
    except Exception as e:
        link="No Value"
    csvw.writerow([a,tauthor,p,link,span,span1])
```



## Task Two:

Calculating the mode of data values, and how many times did it appear in the data, also the percentage of its appearance to the total data count.

```

jupyter Untitled Last Checkpoint: a minute ago (autosaved)
File Edit View Insert Cell Kernel Widgets Help Trusted Python 3
In [32]: data=list(map(int,input().split()))
dic=dict()
mod=[]
#getting the numbers from the data and calculatin their appearance in the data
for i in range (len(data)):
#if the number already exist in the dictionary then increase its key value by one
    if(data[i] in dic.keys()):
        dic[data[i]]=dic.get(data[i])+1
#if it is the first appearance then add it to the dictionary and increase its key by one
    else:
        dic[data[i]]=1
#to calculate the mod value
for key, value in dic.items():
#checking if the value of each key is equal to the max number of appearances to see if there is more than one mod
    if (max(dic.values()) == value):
        mod.append(key)
print("Mod : ",mod)
print("Number of mod appearances : ",max(dic.values()))
print("Number of elements in data : ",len(data))
print("Percentage of mod appearances : ",((max(dic.values())/len(data))*100))

#input sample : 1 1 1 1 1 3 2 3 4 2 3 4 6 6 50 50 50 7 50 50 3 3
1 1 1 1 1 4 5 6 7 8
Mod : [1]
Number of mod appearances : 5
Number of elements in data : 10
Percentage of mod appearances : 50.0

```

## Task Three:

Solving the html exercises on the website:

[https://www.w3schools.com/html/exercise.asp?filename=exercise\\_html\\_attributes1](https://www.w3schools.com/html/exercise.asp?filename=exercise_html_attributes1)

