Task: Web Scrapping From the CSV File

Summary:

Installed the Selenium for the web scrapping and import it to the python file

Defined the path for the chrome driver so it can access the path.

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from csv import DictReader
import json
import time

# defined path for the chromedrivr
PATH="C:\Program Files (x86)\chromedriver.exe"
driver=webdriver.Chrome(PATH)
```

Open the CSV file and iterate and and construct and open the url in browser from the given CSV file and compute the time for every hundred Iteration.

```
# open the csv file and iterate over the urls contained in
with open('Amazon.csv', 'r') as read_obj:
    csv_dict_reader = DictReader(read_obj)
    count=0
    data={}
    list1=[]
    t0=time.time()
    for row in csv_dict_reader:
        # calculating the time elapsed in processing 100 urls
        if count==100:
            print()
            count=0
            t1=time.time()-t0
            print("Time computed every 100th round of urls : ",t1)
            t0=time.time()

# Extracting the Country and Asin attributes from csv file
        country=row['country']
        asin=row['Asin']
# constructing the url to be processed
        url="https://www.amazon."+str(country)+"/dp/"+str(asin)
# sending url to the driver
        driver.get(url)
```

Defined the try except block for the handling of page not found error . In the inner try except block used for scrapping the product details from the different structures HTML pages. Creating a dictionary to save the details of products and saving them in a list after each iteration

```
# extracting the title , imgurl, price , product details using the id
product={
    "Product Title":title.text,
    "Product Image URL":src,
    "Product Details":product_price.text,
    "Product Details":product_details.text,
}
#appending the dictionary to a list
list1.append(product)

except:
    #handling the page not found error and appending to the list
    urlnotfound=("url not_available": url}
list1.append(urlnotfound)

count+=1

# creating the list of dictionaries
data=('Products':list1)
# converting dictionary into json
json_string = json.dumps(data)
# writing the json file
with open("ProductswebScrapping.json", "w") as outfile:
    utfile.write(json_string)
driver.quit()
```