ASSIGNMENT 11

KARTIK THAKUR

How many rows and columns are there?

```
In [32]: import pandas as pd
import numpy as np
file="Ecommerce Purchases"
df = pd.read_csv(file)
copy=df.copy()
copy
```

Out[32]:

AM or PM	Browser Info	Company	Credit Card	CC Exp Date	CC Security Code	CC Provider	
ъМ	Opera/9.56.(X11; Linux x86_64; sl- SI) Presto/2	Martinez- Herman	6011929061123406	02/20	900	JCB 16 digit	pdunlap@ya
ъМ	Opera/8.93. (Windows 98; Win 9x 4.90; en-US) Pr	Fletcher, Richards and Whitaker	3337758169645356	11/18	561	Mastercard	anthony41@r
ъМ	Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 	Simpson, Williams and Pham	675957666125	08/19	699	JCB 16 digit	amymiller@ harr
PМ	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_8_0 	Williams, Marshall and Buchanan	6011578504430710	02/24	384	Discover	brent16@olson-robi
ΔM	Opera/9.58.(X11; Linux x86_64; it- IT) Presto/2	Brown, Watson and Andrews	6011456623207998	10/25	678	Diners Club / Carte Blanche	christopherwright@g
PМ	Mozilla/5.0 (Windows NT 5.1) AppleWebKit/5352 	Randall- Sloan	342945015358701	03/22	838	JCB 15 digit	iscott@wade-ga
ΔM	Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 	Hale, Collins and Wilson	210033169205009	07/25	207	JCB 16 digit	mary85@hot
ΔM	Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_7	Anderson Ltd	6011539787356311	05/21	1	VISA 16 digit	tyler16@g
PМ	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_8_8;	Cook Inc	180003348082930	11/17	987	American Express	elizabethmoore(
ΔM	Mozilla/5.0 (X11; Linux i686; rv:1.9.5.20) Gec	Greene Inc	4139972901927273	02/19	302	JCB 15 digit	rachelford@vau

In [33]: df.shape # .shape finds the shape of the dataframe

Out[33]: (10000, 14)

2. What is the average Purchase Price?

```
In [34]: copy["Purchase Price"].mean() # gives average purchase price
Out[34]: 50.34730200000025
```

4. How many people have French 'fr' as their Language of choice on the website?

```
In [35]: # Count the number of people who speak English
    fr_speakers = (df['Language'].str.contains('fr')).sum()
    fr_speakers
Out[35]: 1097
```

5. How many people have the job title of "Drilling engineer"?

```
In [36]: (df['Job'].str.contains('Drilling engineer')).sum()
Out[36]: 21
```

6. How many people made the purchase during the AM and how many people made the purchase during PM?

```
In [37]: (df['AM or PM'].str.contains('AM')).sum()
Out[37]: 4932
In [38]: (df['AM or PM'].str.contains('PM')).sum()
Out[38]: 5068
```

7. What are the 5 most common Job Titles?

8. What is the email of the person with the Credit Card Number: 4926535242672853

```
row = df.loc[df["Credit Card"] == 4926535242672853]
In [40]:
Out[40]:
                                                                           CC
                                                                                    CC
                             AM
                                                                                             CC
                                    Browser
               Address Lot
                                             Company
                                                             Credit Card
                             or
                                                                          Exp
                                                                               Security
                                        Info
                                                                                        Provider
                             PΜ
                                                                                  Code
                                                                         Date
                                  Mozilla/5.0
          70 Maria Manors
                                  (X11: Linux
                                                 Cole.
                   Suite
                         82
                                                                                        American bond
                             PM
                                    x86 64:
                                              King and
                                                       4926535242672853 09/21
          i\r\nJoneshaven. UX
                                                                                         Express
                                  rv:1.9.5.20)
                                               Bowers
                  MN ...
                                        G...
In [41]:
          email = row["Email"].values[0]
           email
Out[41]: 'bondellen@williams-garza.com'
```

9. How many people have American Express as their Credit Card Provider and made a purchase above \$45?

10. How many people have a credit card that expires in 2025?