1. PROJECT NO:

• 01

2. <u>TITLE:</u>

E-Commerce-Purchases-History Analysis using Padas

3. OBJECTIVES:

- To learn about pandas and numpy
- To take csv file in a dataframe
- To Learn head, tail, info, describe of data
- Perform 15 types of action on dataset
- Perform on column access
- Perform apply method
- Know about how to interfere dataframe with Boolean dataframe
- How to find a substring from columns?

4. DESIGN/ALGORITHM/FLOWCHART:

5. **QUESTION:**

- Display top 10 rows of the dataset
- Check last 10 rows of the dataset
- Check datatype of each column
- Check null values in the dataset
- How many rows and columns are there in our dataset?
- Highest and lowest purchase prices.
- Average purchase price
- How many people have French 'fr' as their language?
- Job title contains engineer
- Find the email of the person with the following ip address: 132.207.160.22
- How many people have mastercard as their credit card provider and made a purchase above 5 0?
- Find the email of the person with the following credit card number: 4664825258997302
- How many people purchase during the am and how many people purchase during pm?
- How many people have a credit card that expires in 2020?
- What are the top 5 most popular email providers (e.g. gmail.com, yahoo.com, etc...)

6. <u>IMPLEMENTATION:</u>

7. OUTPUT:

```
temp
hotmail.com 1638
yahoo.com 1616
gmail.com 1605
smith.com 42
williams.com 37
Name: count, dtype: int64
```

8. ANALYSIS:

9. **DISCUSSION:**

10. CONCLUSION:

11. REFERENCE:

Dataset: <u>Kaggle Dataset Link</u>Tutorial: <u>YouTube Tutorials</u>