

# **Practical No : 2**

**Essentials of Data Science**

**Name : Varun R Balbudhe**

**Roll No : 503**

**Div : E1**

**PRN No : 202201040079**

A screenshot of the Microsoft Visual Studio Code (VS Code) interface. The title bar shows the word "PYTHON". The left sidebar has two tabs: "Assignment\_2.py" and "Assignment\_2.py > ...". The main editor area contains the following Python code:

```
1 import csv
2 import statistics
3 # import the module csv and statistics.
4
5 # importing the file sales.csv
6 f1=open("C:\\\\Users\\\\varun\\\\Downloads\\\\Sales.csv","r")
7
8 #creating the List named as sales_data to store the csv file data.
9 sales_data=list(csv.reader(f1))
10
11 p_id=[]
12 p_details=[]
13 s_details=[]
14 cus_details=[]
15 gender_=[]
16
17 for i in range(len(sales_data)):
18     p_id.append(sales_data[i][0])
19     p_details.append(sales_data[i][1])
20     s_details.append(sales_data[i][2])
21     cus_details.append(sales_data[i][3])
22     gender_.append(sales_data[i][4])
```

The code reads a CSV file named "Sales.csv" located at "C:\\\\Users\\\\varun\\\\Downloads\\\\Sales.csv". It uses the `csv` module to read the file and the `statistics` module to import the `statistics` module. It creates five lists: `p\_id`, `p\_details`, `s\_details`, `cus\_details`, and `gender\_`. It then loops through the CSV data, appending each row's values to their respective lists.

Assignment\_2.py

Assignment\_2.py &gt; ...

```
23  
24  
25 print("Sales Data : \n")  
26 for i in range(1,len(sales_data)):  
27     print(p_id[i],"\\t\\t",p_details[i],"\\t\\t",s_details[i],"\\t\\t",cus_details[i],"\\t\\t\\t",gender_[i])  
28  
29  
30 print("\n\nQ1 . Storing Supplier Details in Dictionary.\n")  
31 SuppDetails={}  
32 for i in range(1,len(sales_data)):  
33     SuppDetails.update({p_id[i]:s_details[i]})  
34 print(SuppDetails)  
35  
36 print("\nQ2 . Converted the list (customer details) into tuple.\n")  
37 print(tuple(cus_details))  
38 print("\n\n")  
39  
40 suppdetails=list(SuppDetails.values())  
41 print("Q3 . The most popular product for sales is : ",statistics.mode(p_details),"\\n")  
42  
43 print("Q4 . The best supplier for sales is : ",statistics.mode(suppdetails),"\\n")  
44  
45 print("Q5 . The customer who buys most of the products is : ",statistics.mode(cus_details),"\\n")
```

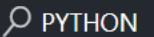


Assignment\_2.py X

Assignment\_2.py &gt; ...

```
31  SuppDetails={}
32  for i in range(1,len(sales_data)):
33      SuppDetails.update({p_id[i]:s_details[i]})  
34  print(SuppDetails)  
35  
36  print("\nQ2 . Converted the list (customer details) into tuple.\n")
37  print(tuple(cus_details))
38  print("\n\n")  
39  
40  suppdetails=list(SuppDetails.values())
41  print("Q3 . The most popular product for sales is : ",statistics.mode(p_details),"\n")
42  
43  print("Q4 . The best supplier for sales is : ",statistics.mode(suppdetails),"\n")
44  
45  print("Q5 . The customer who buys most of the product : ",statistics.mode(cus_details),"\n")
46  count=0
47  for i in range(len(gender_)):
48      if gender_[i]=="Female":
49          count+=1  
50  
51  print("Q6 . The Number of customers who are female[are : ",count)
```





PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + ⌂ ⏺ ... ⌂ ×

Microsoft Windows [Version 10.0.22621.1778]  
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```
C:\Users\varun\OneDrive\Desktop\Code-Play\PYTHON>python -u "c:\Users\varun\OneDrive\Desktop\Code-Play\PYTHON\assignment 2.py"
```

## Sales Data :

P00001	Lenovo Laptop	Raka Ele.	Kaustubh Mahajan	Male
P00002	Samsung M31	Vijay Sales	Siddhi Kiwale	Female
P00003	Realmi 10pro	Gada Ele.	Sanket Kandalkar	Male
P00004	Oppo F21	Surya Ele.	Yash Mali	Male
P00005	Lenovo Laptop	Raka Ele.	Yash Bagul	Male
P00006	Samsung M31	Gada Ele.	Siddhi Kiwale	Female
P00007	LG TV 32"	Vijay Sales	Sanket Kandalkar	Male
P00008	Oppo F21	Surya Ele.	Kaustubh Mahajan	Male
P00009	Lenovo Laptop	Raka Ele.	Yash Mali	Male
P00010	Samsung M31	Gada Ele.	Siddhi Kiwale	Female
P00011	LG TV 32"	Surya Ele.	Sanket Kandalkar	Male
P00012	Lenovo Laptop	Raka Ele.	Kaustubh Mahajan	Male
P00013	Samsung M31	Surya Ele.	Yash Mali	Male
P00014	Realmi 10pro	Raka Ele.	Siddhi Kiwale	Female
P00019	Samsung M31	Deshmukh sales	Kaustubh Mahajan	Male
P00020	LG TV 32"	Gada Ele.	Yash Mali	Male

## Q1 . Storing Supplier Details in Dictionary

```
{'P00001': 'Raka Ele.', 'P00002': 'Vijay Sales', 'P00003': 'Gada Ele.', 'P00004': 'Surya Ele.', 'P00005': 'Raka Ele.', 'P00006': 'Gada Ele.', 'P00007': 'Vijay Sales', 'P00008': 'Surya Ele.', 'P00009': 'Raka Ele.', 'P00010': 'Gada Ele.', 'P00011': 'Surya Ele.', 'P00012': 'Raka Ele.', 'P00013': 'Surya Ele.', 'P00014': 'Raka Ele.', 'P00015': 'Gada Ele.', 'P00016': 'Vijay Sales', 'P00017': 'Deshmukh sales', 'P00018': 'Raka Ele.', 'P00019': 'Deshmukh sales', 'P00020': 'Gada Ele.'}
```

Q2 . Converted the list (customer details) into tuple.

Q1 . Storing Supplier Details in Dictionary.

```
{'P00001': 'Raka Ele.', 'P00002': 'Vijay Sales', 'P00003': 'Gada Ele.', 'P00004': 'Surya Ele.', 'P00005': 'Raka Ele.', 'P00006': 'Gada Ele.', 'P00007': 'Vijay Sales', 'P00008': 'Surya Ele.', 'P00009': 'Raka Ele.', 'P00010': 'Gada Ele.', 'P00011': 'Surya Ele.', 'P00012': 'Raka Ele.', 'P00013': 'Surya Ele.', 'P00014': 'Raka Ele.', 'P00015': 'Gada Ele.', 'P00016': 'Vijay Sales', 'P00017': 'Deshmukh sales', 'P00018': 'Raka Ele.', 'P00019': 'Deshmukh sales', 'P00020': 'Gada Ele.'}
```

Q2 . Converted the list (customer details) into tuple.

```
('Customer Details', 'Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Yash Mali', 'Yash Bagul', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Kaustubh Mahajan', 'Yash Mali', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Kaustubh Mahajan', 'Yash Mali', 'Siddhi Kiwale', 'Tanuja Mali', 'Kaustubh Mahajan', 'Sanket Kandalkar', 'Siddhi Kiwale', 'Kaustubh Mahajan', 'Yash Mali')
```

Q3 . The most popular product for sales is : Lenovo Laptop

Q4 . The best supplier for sales is : Raka Ele.

Q5 . The customer who buys most of the product : Kaustubh Mahajan

Q6 . The Number of customers who are female are : 6

C:\Users\varun\OneDrive\Desktop\Code-Play\PYTHON>

⊗ 0 ▲ 0

Screen Reader Optimized

Ln 34, Col 19

Spaces: 4

UTF-8

CRLF

{ } Python

3.10.11 64-bit (microsoft store)

ⓘ Go Live

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