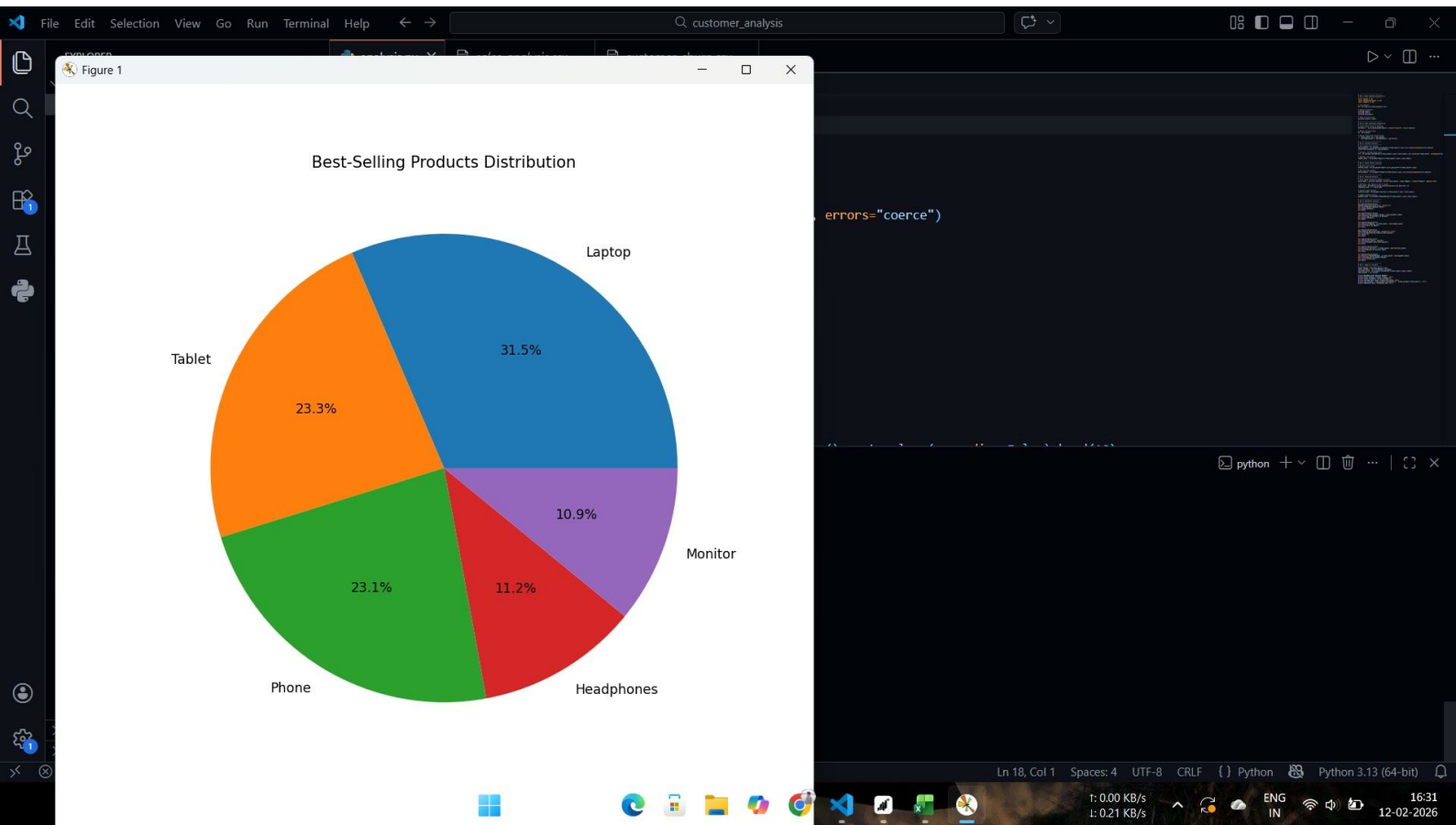
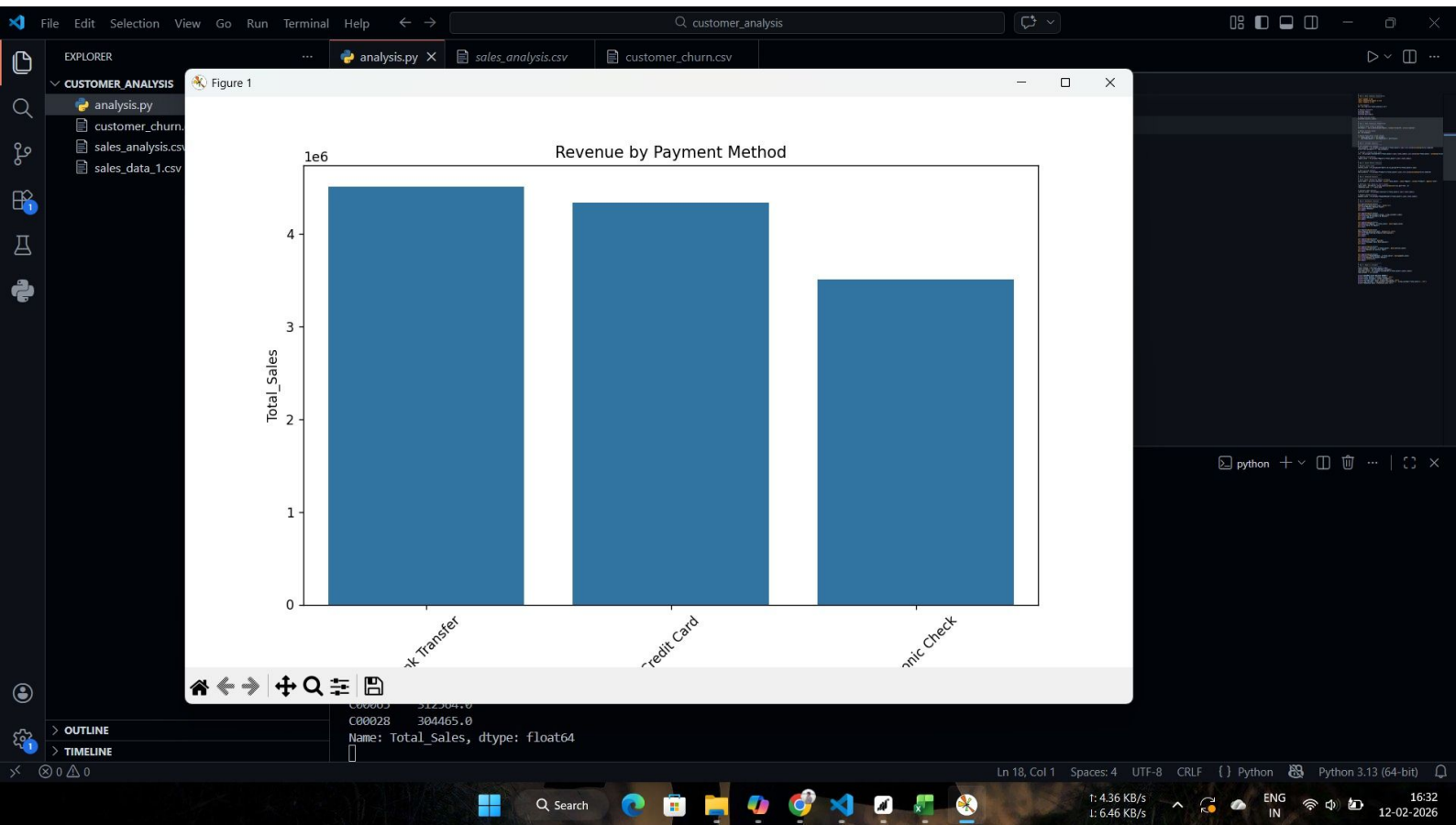


```
C00070 318762.0
C00005 318680.0
C00065 312564.0
C00028 304465.0
Name: Total_Sales, dtype: float64
```









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customer\_analysis

powerShell

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

PS C:\Users\khana\.vscode\customer\_analysis> & "C:\Program Files\Python313\python.exe" c:\Users\khana\.vscode\customer\_analysis\analysis.py

	Date	Product	Quantity	Price	Region	Total_Sales	...	TotalCharges	Contract	PaymentMethod	PaperlessBilling	SeniorCitizen	Churn
0	01-01-2024	Phone	7.0	37300.0	East	261100.0	...	1540	One year	Credit Card	No	1	0
1	02-01-2024	Headphones	4.0	15406.0	North	61624.0	...	1753	Month-to-month	Electronic Check	Yes	1	0
2	03-01-2024	Phone	2.0	21746.0	West	43492.0	...	1455	Two year	Credit Card	No	1	0
3	04-01-2024	Headphones	1.0	30895.0	East	30895.0	...	7150	Month-to-month	Electronic Check	No	1	0
4	05-01-2024	Laptop	8.0	39835.0	North	318680.0	...	1023	One year	Electronic Check	No	1	0

[5 rows x 15 columns]  
<class 'pandas.DataFrame'>  
RangeIndex: 500 entries, 0 to 499  
Data columns (total 15 columns):  
# column Non-Null Count Dtype  
--- ---  
0 Date 100 non-null str  
1 Product 100 non-null str  
2 Quantity 100 non-null float64  
3 Price 100 non-null float64  
4 Region 100 non-null str  
5 Total\_Sales 100 non-null float64  
6 CustomerID 500 non-null str  
7 Tenure 500 non-null int64  
8 MonthlyCharges 500 non-null int64  
9 TotalCharges 500 non-null int64  
10 Contract 500 non-null str  
11 PaymentMethod 500 non-null str  
12 PaperlessBilling 500 non-null str  
13 SeniorCitizen 500 non-null int64  
14 Churn 500 non-null int64  
dtypes: float64(3), int64(5), str(7)  
memory usage: 58.7 KB  
None

	Quantity	Price	Total_Sales	Tenure	MonthlyCharges	TotalCharges	SeniorCitizen	Churn
count	100.000000	100.000000	100.000000	500.000000	500.000000	500.000000	500.000000	500.000000
mean	4.780000	25808.510000	123650.480000	36.532000	113.636000	4237.882000	0.498000	0.106000
std	2.588163	13917.630242	100161.085275	20.667057	51.799903	2260.619837	0.500497	0.308146
min	1.000000	1308.000000	6540.000000	1.000000	20.000000	159.000000	0.000000	0.000000
25%	2.750000	14965.250000	39517.500000	19.000000	67.000000	2237.250000	0.000000	0.000000
50%	5.000000	24192.000000	97955.500000	37.000000	115.000000	4182.500000	0.000000	0.000000
75%	7.000000	38682.250000	175792.500000	54.000000	158.000000	6266.750000	1.000000	0.000000
max	9.000000	49930.000000	373932.000000	71.000000	199.000000	7992.000000	1.000000	1.000000

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Search

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PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

min	1.000000	1308.000000	6540.000000	1.000000	20.000000	159.000000	0.000000	0.000000
25%	2.750000	14965.250000	39517.500000	19.000000	67.000000	2237.250000	0.000000	0.000000
50%	5.000000	24192.000000	97955.500000	37.000000	115.000000	4182.500000	0.000000	0.000000
75%	7.000000	38682.250000	175792.500000	54.000000	158.000000	6266.750000	1.000000	0.000000
max	9.000000	49930.000000	373932.000000	71.000000	199.000000	7992.000000	1.000000	1.000000

Date400  
Product400  
Quantity400  
Price400  
Region400  
Total Sales400  
CustomerID0  
Tenure0  
MonthlyCharges0  
TotalCharges0  
Contract0  
PaymentMethod0  
PaperlessBilling0  
SeniorCitizen0  
Churn0  
dtype: int64  
Top Customers:  
CustomerID  
C00016373932.0  
C00007363870.0  
C00083350888.0  
C00073340510.0  
C00020333992.0  
C00084324144.0  
C00070318762.0  
C00005318680.0  
C00065312564.0  
C00028304465.0  
Name: Total Sales, dtype: float64  
CUSTOMER SALES ANALYSIS REPORT  
Total Revenue: \$12,365,048  
Total Customers: 100  
Average Order Value: \$123,650  
Top Customer: C00016 - \$373,932  
Retention Rate: 100.00%  
PS c:\Users\khana\.vscode\customer\_analysis>

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l: 0.13 KB/s

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