

```
import pandas as pd
from google.colab import files
```

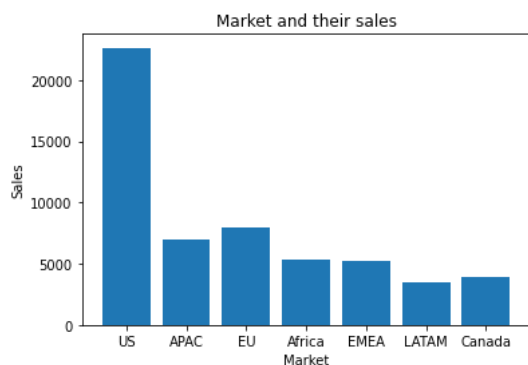
```
uploaded=files.upload()
```

No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving Global Superstore.xls to Global Superstore.xls

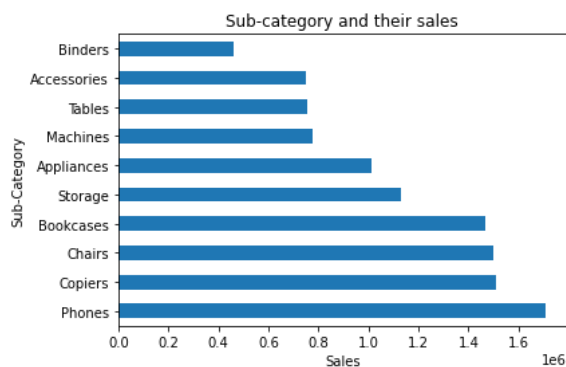
```
import io
df=pd.read_excel(io.BytesIO(uploaded['Global Superstore.xls']))
```

```
import matplotlib.pyplot as plt
```

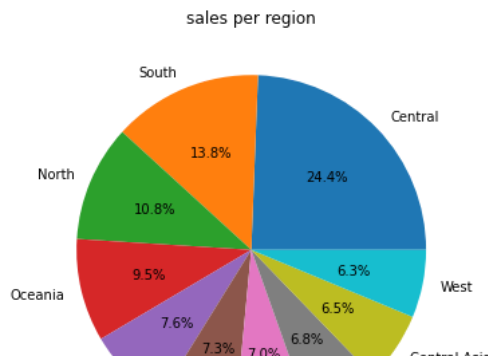
```
market=df['Market']
sales=df['Sales']
plt.bar(market,sales)
plt.title('Market and their sales')
plt.ylabel('Sales')
plt.xlabel('Market')
plt.show()
```



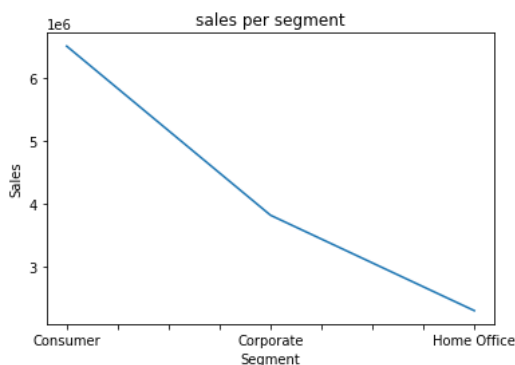
```
sales_per_segment = df.groupby('Sub-Category').sum()['Sales'].nlargest(10)
sales_per_segment.plot(kind='barh')
plt.title('Sub-category and their sales')
plt.xlabel('Sales')
plt.ylabel('Sub-Category')
plt.show()
```



```
sales_per_region = df.groupby('Region').sum()['Sales'].nlargest(10)
sales_per_region.plot(kind='pie', autopct='%1.1f%%', figsize=(12,6))
plt.title('sales per region')
plt.ylabel('')
plt.show()
```



```
sales_per_segment = df.groupby('Segment').sum()['Sales'].nlargest(10)
sales_per_segment.plot(kind='line')
plt.title('sales per segment')
plt.ylabel('Sales')
plt.xlabel('Segment')
plt.show()
```



```
!pip install nbconvert
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: nbconvert in /usr/local/lib/python3.9/dist-packages (6.5.4)
Requirement already satisfied: nbclient>=0.5.0 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (0.7.2)
Requirement already satisfied: mistune<2,>=0.8.1 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (0.8.4)
Requirement already satisfied: defusedxml in /usr/local/lib/python3.9/dist-packages (from nbconvert) (0.7.1)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (2.1.2)
Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (4.9.3)
Requirement already satisfied: lxml in /usr/local/lib/python3.9/dist-packages (from nbconvert) (4.9.2)
Requirement already satisfied: pandocfilters>=1.4.1 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (1.5.0)
Requirement already satisfied: jupyterlab-pygments in /usr/local/lib/python3.9/dist-packages (from nbconvert) (0.2.2)
Requirement already satisfied: packaging in /usr/local/lib/python3.9/dist-packages (from nbconvert) (23.0)
Requirement already satisfied: Jinja2>=3.0 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (3.1.2)
Requirement already satisfied: traitlets>=5.0 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (5.7.1)
Requirement already satisfied: jupyter-core>=4.7 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (5.2.0)
Requirement already satisfied: nbformat>=5.1 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (5.7.3)
Requirement already satisfied: tinycss2 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (1.2.1)
Requirement already satisfied: pygments>=2.4.1 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (2.6.1)
Requirement already satisfied: entrypoints>=0.2.2 in /usr/local/lib/python3.9/dist-packages (from nbconvert) (0.4)
Requirement already satisfied: bleach in /usr/local/lib/python3.9/dist-packages (from nbconvert) (6.0.0)
Requirement already satisfied: platformdirs>=2.5 in /usr/local/lib/python3.9/dist-packages (from jupyter-core>=4.7->nbconvert) (3.1)
Requirement already satisfied: jupyter-client>=6.1.12 in /usr/local/lib/python3.9/dist-packages (from nbclient>=0.5.0->nbconvert) (6.1.12)
Requirement already satisfied: jsonschema>=2.6 in /usr/local/lib/python3.9/dist-packages (from nbformat>=5.1->nbconvert) (4.3.3)
Requirement already satisfied: fastjsonschema in /usr/local/lib/python3.9/dist-packages (from nbformat>=5.1->nbconvert) (2.16.3)
Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.9/dist-packages (from beautifulsoup4->nbconvert) (2.4)
Requirement already satisfied: six>=1.9.0 in /usr/local/lib/python3.9/dist-packages (from bleach->nbconvert) (1.15.0)
Requirement already satisfied: webencodings in /usr/local/lib/python3.9/dist-packages (from bleach->nbconvert) (0.5.1)
Requirement already satisfied: pyparsing!=0.17.0,!=0.17.1,!=0.17.2,>=0.14.0 in /usr/local/lib/python3.9/dist-packages (from jsonschema) (3.1.0)
Requirement already satisfied: attrs>=17.4.0 in /usr/local/lib/python3.9/dist-packages (from jsonschema>=2.6->nbformat>=5.1->nbconvert) (22.2.0)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.9/dist-packages (from jupyter-client>=6.1.12->nbclient) (2.8.2)
Requirement already satisfied: tornado>=4.1 in /usr/local/lib/python3.9/dist-packages (from jupyter-client>=6.1.12->nbclient) (6.1.0)
Requirement already satisfied: pyzmq>=13 in /usr/local/lib/python3.9/dist-packages (from jupyter-client>=6.1.12->nbclient) (22.3.0)
```

```
!jupyter nbconvert --to html sales.ipynb
```

```
[NbConvertApp] Converting notebook sales.ipynb to html
[NbConvertApp] Writing 719700 bytes to sales.html
```

✓ 6s completed at 11:56 AM

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