Data Reporting:

        Data Reporting means to visualize the data.

we can visualize the data by using matplotlib,seaborn,....

if we want to working with matplotlib,first we need to install matplotlib.

        pip install matplotlib

ex1:
---
wap to draw the simple plot?

```
import matplotlib.pyplot as plt
x=[1,3,5,7]
y=[8,4,2,6]
plt.plot(x,y)
plt.show()
```

ex2:

```
import matplotlib.pyplot as plt
plt.plot([1,3,5,7],[8,4,2,6],color="red",label="first")
plt.plot([4,8,2,6],[7,3,5,1],label="second")
plt.xlabel("x-axis")
plt.ylabel("y-axis")
plt.title("Simple Plot Graph")
plt.legend()
plt.show()
```

ex3:
---
wap to draw the simple bar graph?

```
import matplotlib.pyplot as plt
plt.bar([1,3,5,7],[8,4,2,6],color="red",label="first")
plt.bar([4,8,2,6],[7,3,5,1],label="second")
plt.xlabel("x-axis")
plt.ylabel("y-axis")
plt.title("Simple Bar Graph")
plt.legend()
plt.show()
```

ex4:
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wap to draw the simple scatter plot?

```python
import matplotlib.pyplot as plt
plt.scatter([1,3,5,7],[8,4,2,6],color="red",label="first")
plt.scatter([4,8,2,6],[7,3,5,1],label="second",marker="*")
plt.xlabel("x-axis")
plt.ylabel("y-axis")
plt.title("Simple Scatter Graph")
plt.legend()
plt.show()
```

ex5:
---
wap to draw the simple Pie Chart?

```python
import matplotlib.pyplot as plt
subjects=["Python","Django","Flask","MicroServices"]
marks=[67,76,23,38]
cols=["red","purple","blue","orange"]
plt.pie(marks,labels=subjects,colors=cols,shadow=True,
        explode=(0,0,0.1,0),startangle=90,autopct="%.2f%%")
plt.show()
```