Aim: Write a Python code to upload a data set with any one method and apply data visualization on it.

1. Reading dataset

Code:

```
from google.colab import files
data = pd.read_csv('/content/test - Sheet1.csv')
data.head()
```

Output:

	name	age
0	gaurang	14
1	bhargav	12
2	upendra	19
3	atharva	14
4	manav	12

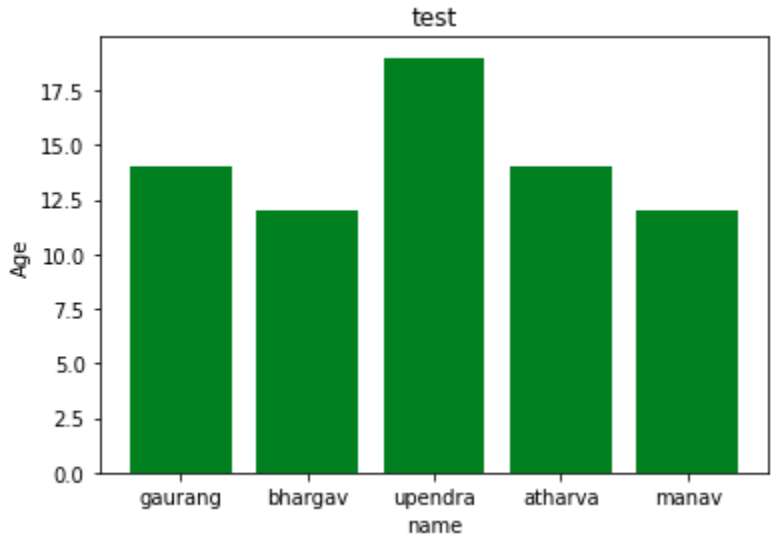
2. Bar graph

Code:

```
# Import the necessary modules
import matplotlib.pyplot as plt
import pandas as pd

# Initialize the lists for X and Y
data = pd.read_csv('test - Sheet1.csv')

df = pd.DataFrame(data)

X = list(df.iloc[:, 0])
Y = list(df.iloc[:, 1])
```

```
# Plot the data using bar() method
plt.bar(X, Y, color='g')
plt.title("test")
plt.xlabel("name")
plt.ylabel("Age")

# Show the plot
plt.show()
```

Output:



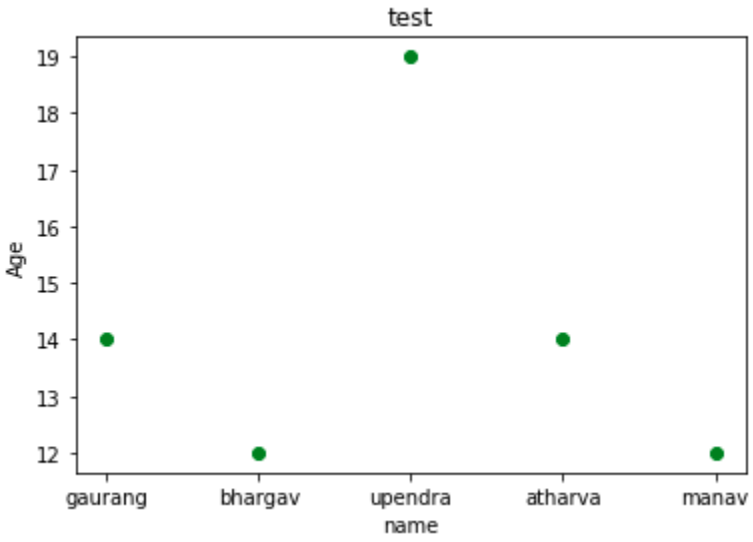
3. Scatter plot

Code:

```
# Import the necessary modules
import matplotlib.pyplot as plt
import pandas as pd

# Initialize the lists for X and Y
data = pd.read_csv('test - Sheet1.csv')

df = pd.DataFrame(data)

X = list(df.iloc[:, 0])
```

```
Y = list(df.iloc[:, 1])

# Plot the data using bar() method
plt.scatter(X, Y, color='g')
plt.title("test")
plt.xlabel("name")
plt.ylabel("Age")

# Show the plot
plt.show()
```

Output:



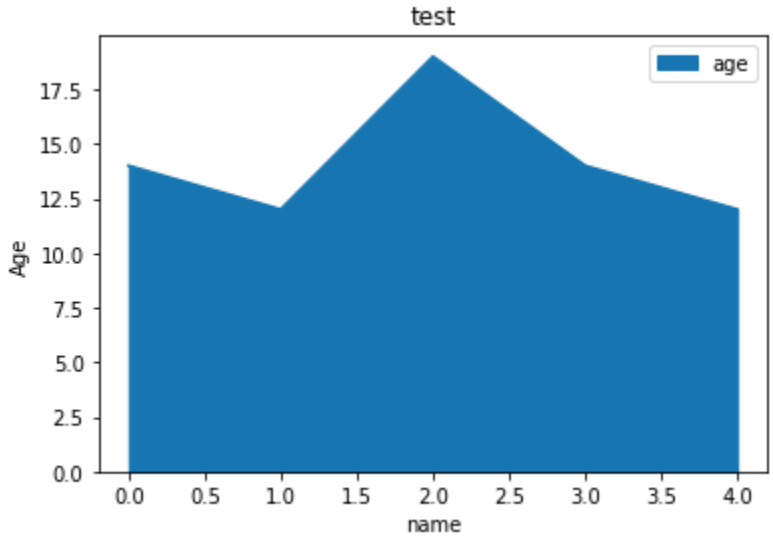
4. Area plot :

Code:

```
# Import the necessary modules
import matplotlib.pyplot as plt
import pandas as pd

# Initialize the lists for X and Y
data = pd.read_csv('test - Sheet1.csv')
```

```
df = pd.DataFrame(data)

X = list(df.iloc[:, 0])
Y = list(df.iloc[:, 1])

# Plot the data using bar() method
df.plot.area()
plt.title("test")
plt.xlabel("name")
plt.ylabel("Age")

# Show the plot
plt.show()
```

Output:



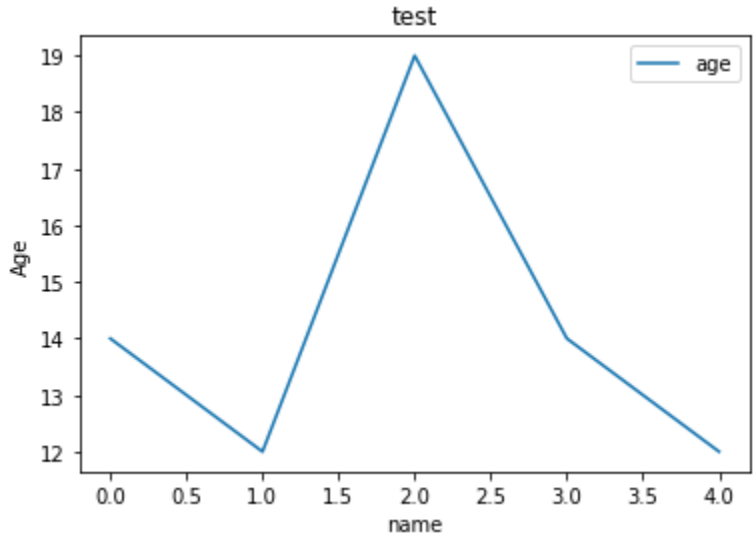
5. Line chart :

Code:

```
# Import the necessary modules
import matplotlib.pyplot as plt
import pandas as pd

# Initialize the lists for X and Y
```

```
data = pd.read_csv('test - Sheet1.csv')

df = pd.DataFrame(data)

X = list(df.iloc[:, 0])
Y = list(df.iloc[:, 1])

df.plot()
plt.title("test")
plt.xlabel("name")
plt.ylabel("Age")

# Show the plot
plt.show()
```

Output:



Conclusion:

We have successfully performed the aim of the experiment on the topic of matplotlib.