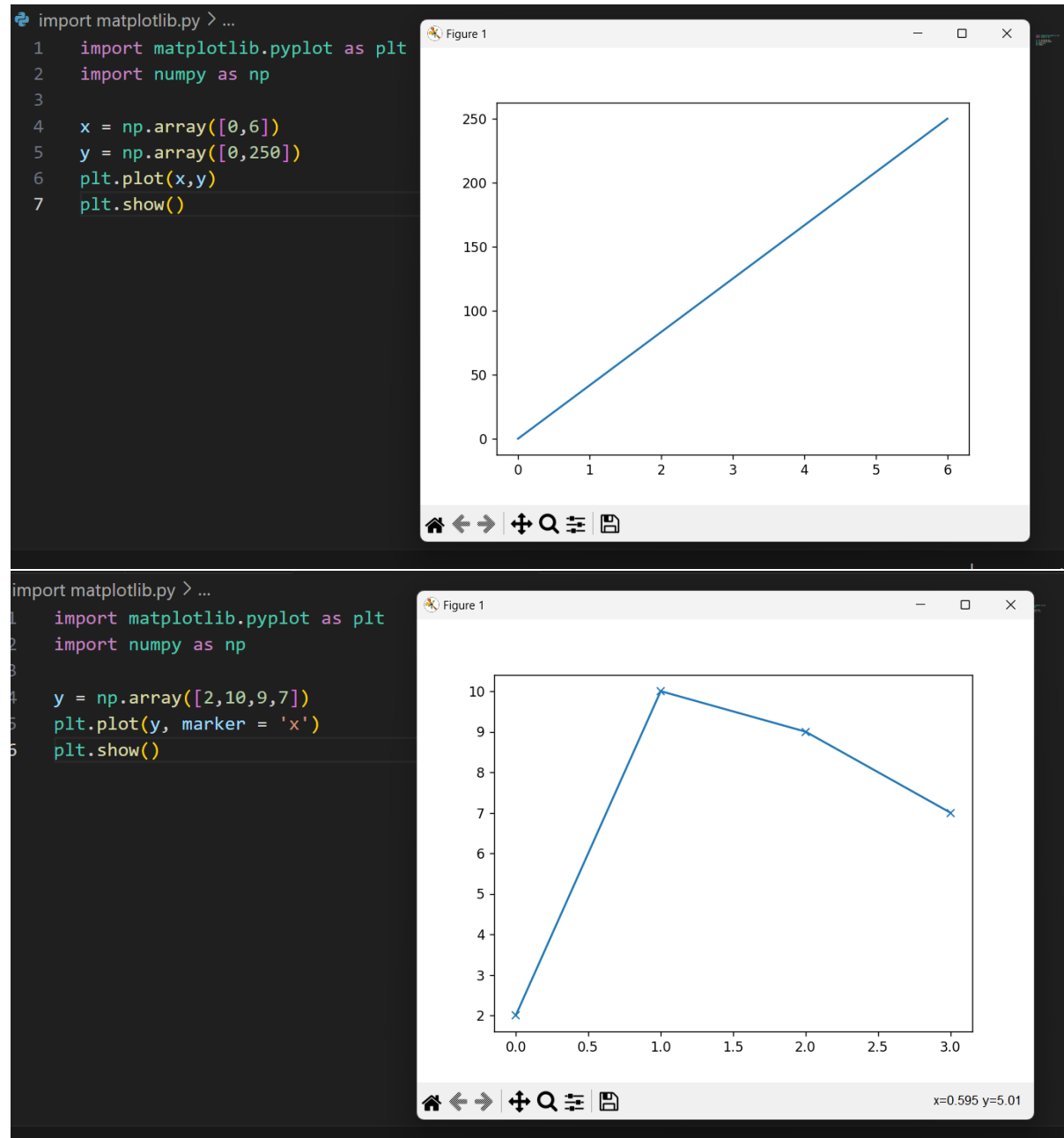SAI ABHISHEK KOPPISETTY

C5-1

16010123293

MATPLOTLIB


```python
import matplotlib.pyplot as plt
import numpy as np

x = np.array([0,6])
y = np.array([0,250])
plt.plot(x,y)
plt.show()
```



```python
import matplotlib.pyplot as plt
import numpy as np

y = np.array([2,10,9,7])
plt.plot(y, marker = 'x')
plt.show()
```
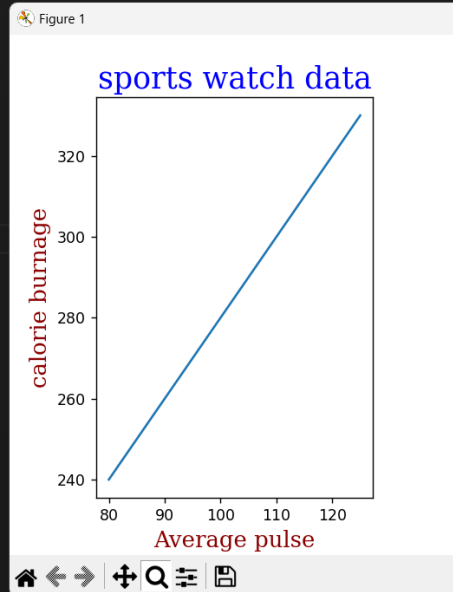
```python
import matplotlib.pyplot as plt
import numpy as np

x = np.array([80,85,90,95,100,105,110,115,120,125])
y = np.array([240,250,260,270,280,290,300,310,320,330])

font1 = {'family':'serif','color':"blue",'size':20}
font2 = {'family':'serif','color':"darkred",'size':15}
plt.title("sports watch data", fontdict = font1)
plt.xlabel("Average pulse", fontdict = font2)
plt.ylabel("calorie burnage",fontdict = font2)

plt.plot(x,y)
plt.show()
```
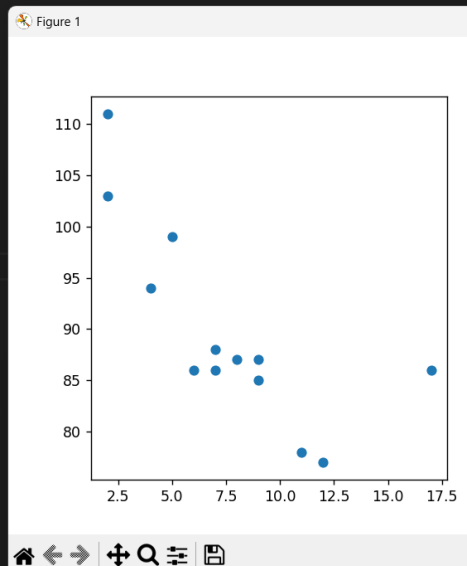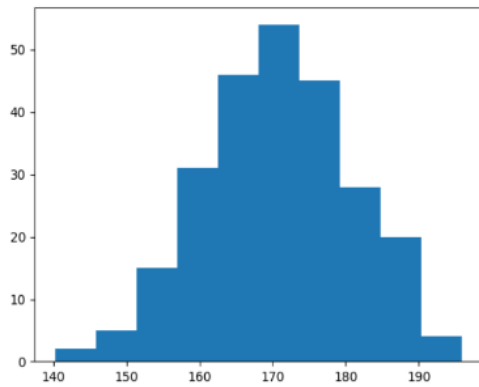


```python
import matplotlib.pyplot as plt
import numpy as np

x = np.array([5,7,8,7,2,17,2,9,4,11,12,9,6])
y = np.array([99,86,87,88,111,86,103,87,94,78,77,85,86])

plt.scatter(x,y)
plt.show()
```

```
import matplotlib.py > ...
1    import matplotlib.pyplot as plt
2    import numpy as np
3
4    y = np.array([35,25,25,15])
5    mylabels = ["Apples","Bananas","Cherries","Dates"]
6
7    plt.pie( y,labels = mylabels,startangle = 90)
8    plt.show()
9
```