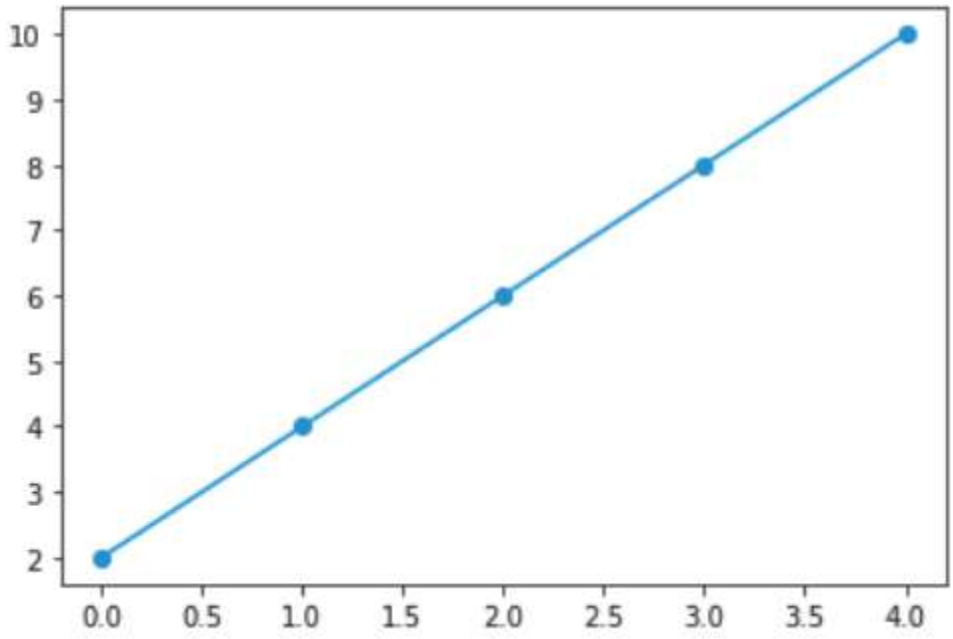
ASSIGNMENT - 1

Q1) Draw a line chart.

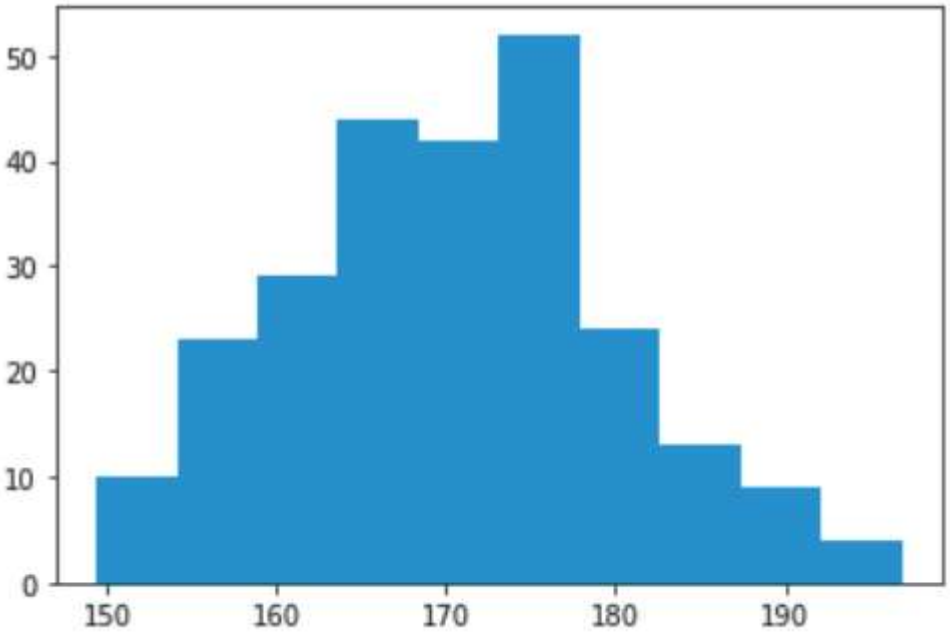
```
import numpy as np
import matplotlib.pyplot as plt
user = int(input("Enter number of data: "))
x = np.arange(user)
y = []
for i in range (0, user):
    value = int(input("Enter value: "))
    y.append(value)

y = np.array(y)
plt.scatter(x, y)
plt.plot(x, y)
plt.show()
```



Q2) Draw a histogram.

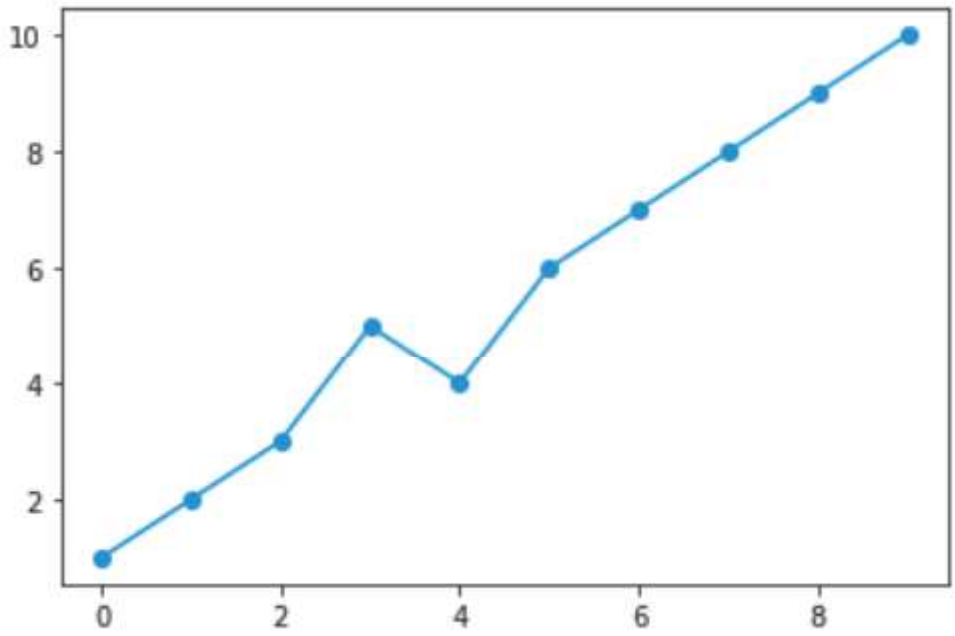
```
import matplotlib.pyplot as plt
import numpy as np
x = np.random.normal(170, 10, 250)
plt.hist(x)
plt.show()
```



ASSIGNMENT - 2

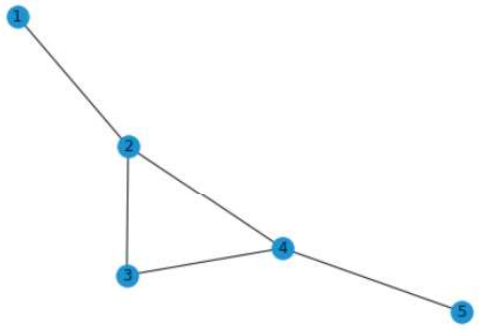
Q1)Draw a line graph(Input from the user).

```
import numpy as np
import matplotlib.pyplot as plt
user = int(input("Enter number of data: "))
x = np.arange(user)
y = []
for i in range (0, user):
    value = int(input("Enter value: "))
    y.append(value)
y = np.array(y)
plt.scatter(x, y)
plt.plot(x, y)
plt.show()
```



Q2)Plot a graph

```
import networkx as nx
g = nx.Graph()
g.add_edge(1, 2)
g.add_edge(2, 3)
g.add_edge(3, 4)
g.add_edge(2, 4)
g.add_edge(4, 5)
nx.draw(g, with_labels = True)
```



Q3)Draw a complete graph of 4 nodes.

```
import networkx
G = networkx.complete_graph(4)
networkx.draw(G, node_color = 'black',node_size = 1500)
```