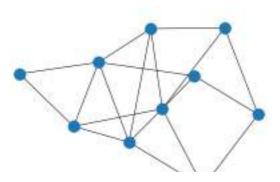
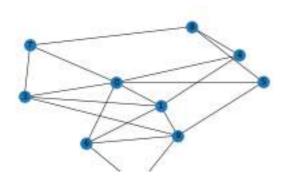
```
Name: khan shoab akhtar vakil ahmad
Roll No: 19CO33
Exp No: 04
Batch No: 01
!pip install networkx
     Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/public/simple/</a>
     Requirement already satisfied: networkx in /usr/local/lib/python3.8/dist-packages (3.0)
import networkx
G = networkx.Graph()
G.add_node(1)
G.add_node(2)
G.add_node(3)
G.add_node(4)
G.add_node(5)
G.nodes()
     NodeView((1, 2, 3, 4, 5))
 Automatic document saving has been pending for 4 minutes. Reloading may fix the problem. Save and reload the
G.add_edge(1,2)
G.add_edge(1,3)
G.add_edge(4,3)
G.add_edge(4,3)
G.add_edge(5,4)
G.add_edge(2,3)
G.edges()
     EdgeView([(1, 2), (1, 3), (2, 3), (3, 4), (4, 5)])
import networkx as nx
G = nx.Graph()
G.nodes()
G.edges()
     EdgeView([])
import matplotlib.pyplot as plt
nx.draw(G)
plt.show()
```

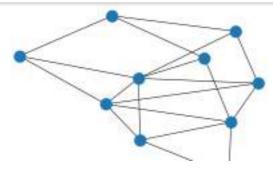


nx.draw(G,with_labels=1)
plt.show()



G = nx.gnp_random_graph(10,0.5)

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