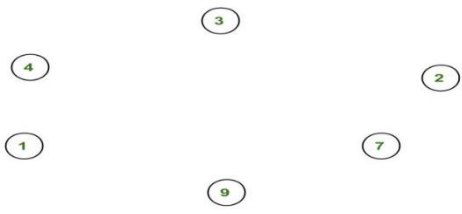
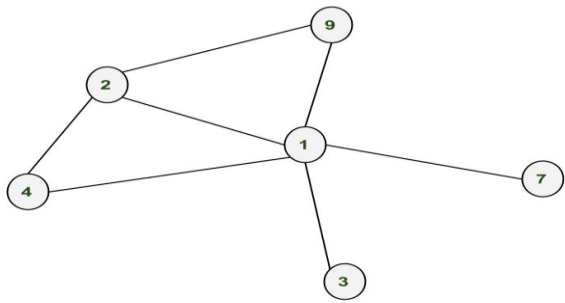
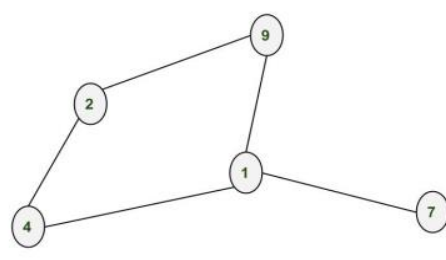
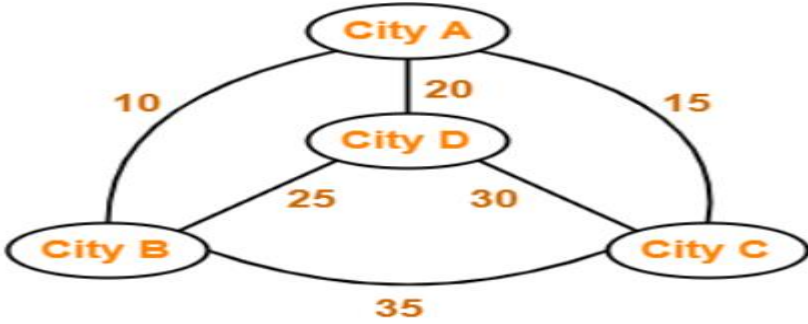
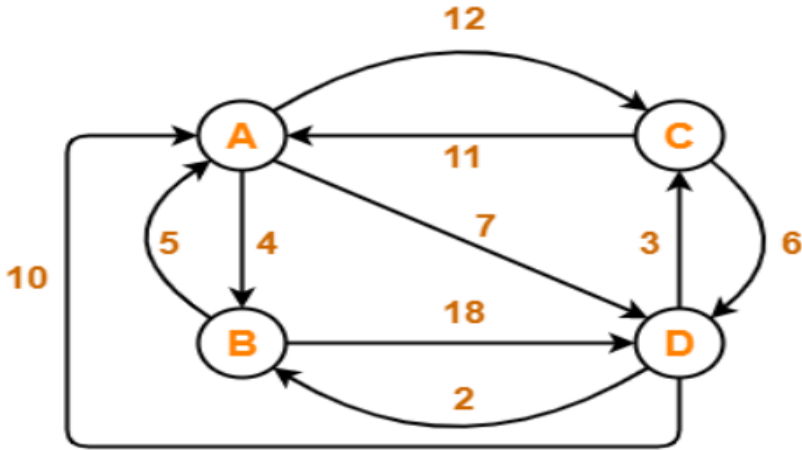


Assignment 9

Fundamentals of Data Science (UCS-538)

1	<p>Write a python code to represent these nodes</p>  <pre>graph TD; 1((1)); 2((2)); 3((3)); 4((4)); 7((7)); 9((9));</pre>
2	<p>Write a python code to extend the above diagram</p>  <pre>graph TD; 1((1)) --- 2((2)); 1((1)) --- 3((3)); 1((1)) --- 4((4)); 1((1)) --- 7((7)); 1((1)) --- 9((9)); 2((2)) --- 4((4));</pre>
3	<p>Remove the required node(s) and edges from the graph shown in Q No 2 to get the below network</p>  <pre>graph TD; 1((1)) --- 2((2)); 1((1)) --- 4((4)); 1((1)) --- 7((7)); 1((1)) --- 9((9)); 2((2)) --- 4((4));</pre>
4	<p>Write the Python code for the following Salesman Problem</p>

	 <p style="text-align: center;">Travelling Salesman Problem</p>
5	<p>Write the Python code for the following Salesman Problem</p> 
6	<p>Convert a given directed graph to undirected graph.</p>