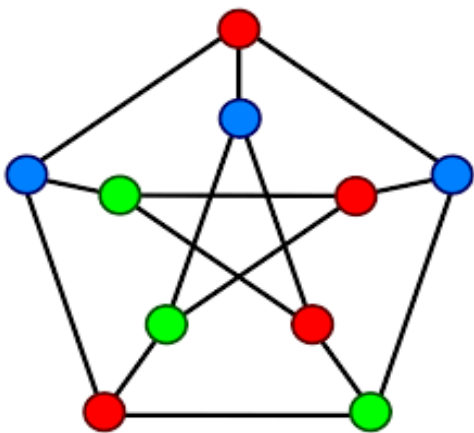
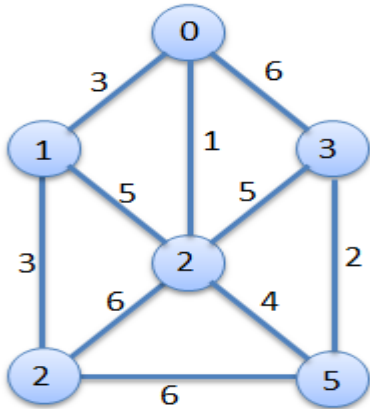
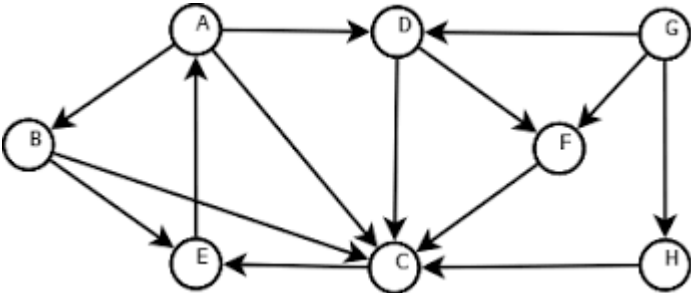


<p>Traveling Salesman Problem</p>			<p>PO12, PSO1 PSO2</p>										
<p>Lab 5: Dynamic Programming</p> <ul style="list-style-type: none"> Implement Single Source shortest Path for a graph (Dijkstra, Bellman Ford Algorithm) 		<p>CO3</p>	<p>PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO12, PSO1 PSO2</p>										
<p>Lab 6: Backtracking (implement any one of the following problem)</p> <ul style="list-style-type: none"> Implement 8 Queen problem 	<p>V. Write a C Program to implement 8 Queens problem using Backtracking</p>	<p>CO4,</p>	<p>PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO12, PSO1 PSO2</p>										
<p>Lab7: Backtracking (implement any one of the following problem)</p> <ul style="list-style-type: none"> Graph Coloring Problem Hamiltonian Problem 	<p>VI. Write a C program to implement Graph Coloring Problem for the following Graph using Backtracking.</p> 	<p>CO4 CO5</p>	<p>PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO12, PSO1 PSO2</p>										
<p>Lab 8: Greedy method(implement any one of the following problem)</p> <ul style="list-style-type: none"> Knapsack Problem Job sequencing with deadlines 	<p>VII. Write a C program to implement Knapsack problem for the following instance.</p> <p>Number of objects:- 7 Capacity of knapsack:- 15 weights and profits of each object:-</p> <table data-bbox="487 1753 682 1921"> <tr> <td>2</td> <td>10</td> </tr> <tr> <td>3</td> <td>5</td> </tr> <tr> <td>5</td> <td>15</td> </tr> <tr> <td>7</td> <td>7</td> </tr> <tr> <td>1</td> <td>6</td> </tr> </table>	2	10	3	5	5	15	7	7	1	6	<p>CO2</p>	<p>PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO12, PSO1 PSO2</p>
2	10												
3	5												
5	15												
7	7												
1	6												

	<p>4 18 1 3</p> <p>Find the Result Vector and Maximum profit</p>		
<p>Lab 9: Greedy method(implement any one of the following problem)</p> <ul style="list-style-type: none"> • Minimum Cost Spanning Tree by Prim's Algorithm • Minimum Cost Spanning Tree by Kruskal's Algorithm 	<p>VIII. Write a C program to find Minimum Cost Spanning Tree using Prim's Algorithm and Krushkal's Algorithm for the following Graph.</p> 	<p>CO2 CO5</p>	<p>PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO12, PSO1 PSO2</p>
<p>Lab 10: Graph Traversal Algorithm</p> <ul style="list-style-type: none"> • Implement Breadth First Search (BFS) • Implement Depth First Search (DFS) 	<p>IX. Write a C program to implement BFS and DFS algorithm for the following Graph.</p> 	<p>,CO5</p>	<p>PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO12, PSO1 PSO2</p>