1. Implement depth first search algorithm, use an undirected graph and develop an algorithm for searching all the vertices of a graph or tree data structure.

2. Implement Breadth First Search algorithm, use an undirected graph and develop an algorithm for searching all the vertices of a graph or tree data structure.

3. Implement A\* Algorithm for any game search problem.

4. Implement Greedy search algorithm for any of the following application:

I. Selection Sort

II. Minimum Spanning Tree

III. Single-Source Shortest Path Problem

IV. Job Scheduling Problem

V. Prim's Minimal Spanning Tree Algorithm

VI. Kruskal's Minimal Spanning Tree Algorithm

VII. Dijkstra's Minimal Spanning Tree Algorithm

5. Implement a solution for a Constraint Satisfaction Problem using Branch and Bound and Backtracking for n-queens problem.

6. Implement a solution for a Constraint Satisfaction Problem using Branch and Bound and Backtracking for graph coloring problem.

7. Develop an elementary chatbot for any suitable customer interaction application.

8. Case study on Amazon EC2 and learn about Amazon EC2 web services.

9. Installation and configure Google App Engine.

10. Creating an Application in SalesForce.com using Apex programming Language.