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| **1.** | Implement depth first search algorithm and breadth First Search algorithm. Use an undirected graph and develop a recursive algorithm for searching all the vertices of a graph or tree data structure. |
| **2.** | Implement A Star Algorithm for any game search problem. |
| **3.** | Implement Greedy search algorithm for any one of the following application:   1. Selection Sort 2. Minimum Spanning Tree 3. Single-Source Shortest Path Problem 4. Job Scheduling Problem 5. Prim's Minimal Spanning Tree Algorithm 6. Kruskal's Minimal Spanning Tree Algorithm 7. Dijkstra's Minimal Spanning Tree Algorithm |
| **4.** | Implement a solution for a Constraint Satisfaction Problem using Branch and Bound and Backtracking for n-queens problem **or** a graph coloring problem |
| **5 .** | Develop an elementary catboat for any suitable customer interaction application. |
| **6.** | Implement any one of the following Expert System   1. Information management 2. Hospitals and medical facilities 3. Help desks management 4. Employee performance evaluation 5. Stock market trading 6. Airline scheduling and cargo schedules |
| **7.** | Creating an Application in SalesForce.com using Apex Programming Language.  (Scientific Calculator) |
| **8** | Creating an Application in SalesForce.com using Apex Programming Language.  (Currency converter) |