Pune District Education Association’s

College of Engineering, Manjari(BK”), Pune –412307

Department of Computer Engineering

**Subject: :** **: Laboratory Practice II** **Subject Code: 310258**

**Subject Teacher: Prof. S.P.Gade Acad. Year: 2021-22(Semester –II)**

Chit No. 1 : Implement depth first search algorithm Use an undirected graph and develop a recursive algorithm for searching all the vertices of a graph data structure.

Chit No. 2 : Implement Breadth First Search algorithm, Use an undirected graph and develop a recursive algorithm for searching all the vertices of a graph data structure.

Chit No. 3 : Implement Breadth First Search algorithm, Use an undirected graph and develop a recursive algorithm for searching all the nodes of a tree data structure.

Chit No. 4 : Implement depth first search algorithm Use an undirected graph and develop a recursive algorithm for searching all the nodes of a tree data structure.

Chit No. 5 : Implement A star Algorithm for tic tac toe game search problem.

Chit No. 6 : Implement A star Algorithm for 8 puzzle game search problem.

Chit No. 7 : Implement Greedy search algorithm for Selection Sort

Chit No. 8 : Implement Greedy search algorithm for Minimum Spanning Tree

Chit No. 9 : Implement Greedy search algorithm for. Single-Source Shortest Path Problem

Chit No. 10 : Implement Greedy search algorithm for .Job Scheduling Problem

Chit No. 11 : Implement Greedy search algorithm for .Prim's Minimal Spanning Tree Algorithm

Chit No. 12 : Implement Greedy search algorithm for.Kruskal's Minimal Spanning Tree Algorithm

Chit No. 13: Implement Greedy search algorithm for Dijkstra's Minimal Spanning Tree Algorithm

Chit No. 14 : Implement a solution for a Constraint Satisfaction Problem using Branch and Bound a graph coloring

problem.

Chit No. 15 : Implement a solution for a Constraint Satisfaction Problem using Backtracking for n-queens problem

Chit No. 16 : Develop an elementary catboat for any suitable customer interaction application.

Chit No. 17 : Implement Expert System : .Information management

Chit No. 18 : Creating an Application in SalesForce.com using Apex programming Language.

Chit No. 19 : Implement depth first search algorithm Use an directed graph and develop a recursive algorithm for searching all the vertices of a graph data structure.

Chit No. 20 : Implement Breadth First Search algorithm, Use an directed graph and develop a recursive algorithm for searching all the vertices of a graph data structure.

| 1 | 01 | 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. |
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| 02 | 02 | Implement A star Algorithm for any game search problem. |
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| 03 | 03 | Implement Greedy search algorithm for any 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   1. 7.Dijkstra's Minimal Spanning Tree Algorithm |
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| 04 | 04 | Implement a solution for a Constraint Satisfaction Problem using Branch and Bound and Backtracking for n-queens problem or a graph coloring problem. |
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| 05 | 05 | Develop an elementary catboat for any suitable customer interaction application. |
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| 06 | 06 | 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 |
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| 07 | 07 | Case study on Microsoft azure to learn about Microsoft Azure is a cloud computing platform and infrastructure, created by Microsoft, for building, deploying and managing applications and services through a global network of Microsoft-managed data centers.  OR  Case study on Amazon EC2 and learn about Amazon EC2 web services. |
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| 08 | 08 | Installation and configure Google App Engine.  OR  Installation and Configuration of virtualization using KVM. |
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| 09 | 09 | Creating an Application in SalesForce.com using Apex programming Language. |
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| 10 | 10 | Design and develop custom Application (Mini Project) using Sales force Cloud. |
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| 11 | 11 | **Mini-Project**  Setup your own cloud for Software as a Service (SaaS) over the existing LAN in your laboratory. In this assignment you have to write your own code for cloud controller using open- source technologies to implement **with HDFS**. Implement the basic operations may be like to divide the file in segments/blocks and upload/ download file on/from cloud in encrypted form. |
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