1. Insert Insert 2. Delete 2. Delete 3. Inorder Traversal 3. Inorder Traversal 4. Preorder Traversal 4. Preorder Traversal 5. Postorder Traversal 5. Postorder Traversal 6. Search 6. Search 7. Exit 7. Exit Enter your choice: 3 Enter your choice: 1 Inorder Traversal: 4 7 9 Enter data to insert: 7 1. Insert 1. Insert 2. Delete 2. Delete 3. Inorder Traversal 3. Inorder Traversal 4. Preorder Traversal 4. Preorder Traversal 5. Postorder Traversal 5. Postorder Traversal Search 6. Search 7. Exit 7. Exit Enter your choice: 1 Enter your choice: 4 Enter data to insert: 4 Preorder Traversal: 7 4 9 1. Insert 1. Insert 2. Delete 2. Delete 3. Inorder Traversal 3. Inorder Traversal 4. Preorder Traversal 4. Preorder Traversal 5. Postorder Traversal 5. Postorder Traversal 6. Search Search 7. Exit 7. Exit Enter your choice: 1 Enter your choice: 5 Enter data to insert: 9 Postorder Traversal: 4 9 7 Enter the number of vertices: 2 1. Insert Vertex 2. Insert Edge 3. Delete Vertex 4. Delete Edge 5. Print Graph 6. Exit Enter your choice: 1 Vertex inserted. 1. Insert Vertex 2. Insert Edge 3. Delete Vertex 4. Delete Edge 5. Print Graph 6. Exit Enter your choice: 2 Enter source and destination vertices: 2 3 Edge inserted. 1. Insert Vertex

2. Insert Edge

Delete Edge
Print Graph

Vertex deleted.

6. Exit

3. Delete Vertex

Enter your choice: 3

Enter vertex to delete: 1

3. Inorder Traversal 4. Preorder Traversal Postorder Traversal 6. Search 7. Exit Enter your choice: 7 ○ PS D:\SIT CS> ^C Enter your choice: 4 Enter source and destination vertices of the edge to delete: 1 3 Edge deleted. 1. Insert Vertex 2. Insert Edge 3. Delete Vertex 4. Delete Edge 5. Print Graph 6. Exit Enter your choice: 5 Adjacency list of vertex 0 head Adjacency list of vertex 1 1. Insert Vertex 2. Insert Edge 3. Delete Vertex 4. Delete Edge 5. Print Graph 6. Exit Enter your choice: 5 Adjacency list of vertex 0 head Adjacency list of vertex 1 head 1. Insert Vertex 2. Insert Edge 3. Delete Vertex 4. Delete Edge Print Graph Exit Enter your choice: 6 PS D:\SIT CS>

Insert

2. Delete

6. Search

Element found

Insert

Delete

7. Exit

3. Inorder Traversal

4. Preorder Traversal

Postorder Traversal

Enter your choice: 6

Enter data to search: 9