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| Assignment number | Title | Date |
| 1 | Consider telephone book database of N clients. Make use of a hash table implementation to quickly lookup client‘s telephone number. | 11/2/22 |
| 2 | Create ADT that implements the “set” concept  With following operations 1.Add 2.Remove 3.Search 4.Intersection 5.Union.6.Difference7.Subset | 22/3/22 |
| 3 | Implement concept of Binary search tree with following operations  i.Insert new node, ii. Find number of nodes in longest path from root, iii. Minimum data value found in the tree, iv. Change a tree so that the roles of the left and right pointers are swapped at every node, v. Search a value. | 12/4/22 |
| 4 | A book consists of chapters, chapters consist of sections and sections consist of subsections. Construct a tree and print the nodes | 19/4/22 |
| 5 | Represent a given graph using adjacency list to perform DFS and BFS. Use the map of the area around the college as the graph. Identify the prominent landmarks as nodes . | 21/4/22 |
| 6 | Represent business with several offices and lease phone lines to connect them up with each other; and the phone company charges different amounts of money to connect different pairs of cities. Identify set of lines that connects all your offices with a minimum total cost. | 26/4/22 |
| 7 | Implement priority queue as ADT using single linked list for servicing patients in an hospital with priorities as i) Serious (top priority) ii) medium illness (medium priority) iii) General (Least priority) | 4/5/22 |
| 8 | Implement concept of sequential file organisation containing student information. The file contains records of students with roll number, name, division and address. Allow user to add, delete, display information of student and search record of student. | 12/5/22 |

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