DAA Practical Assignment

| SL NO | Assignment | Date of submission | Submitted date |
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| **1** | Write a C program to add two matrices by iterative approach. | 5/5/22 | 5/5/22 |
| **2** | Write a C program to subtract one matrix from another by iterative approach. | 5/5/22 | 5/5/22 |
| **3** | Write a C program to multiply two matrices by iterative approach. | 5/5/22 | 5/5/22 |
| **4** | Write a C program to add two matrices by recursive approach. | 6/5/22 | 6/5/22 |
| **5** | Write a C program to subtract one matrix from another by recursive approach. | 6/5/22 | 6/5/22 |
| **6** | Write a C program to multiply two matrices by recursive approach. | 6/5/22 | 6/5/22 |
| **7** | Write a C program to find the determinant of a matrix by iterative approach. | 7/5/22 | 7/5/22 |
| **8** | Write a C program to find the determinant of a matrix by recursive approach. | 7/5/22 | 7/5/22 |
| **9** | Write a C program to implement inorder, preorder and postorder traversals in a binary tree. | 8/5/22 | 8/5/22 |
| **10** | Write a C program to create a binary search tree. Then implement the following: a)insert an element b) delete an element c) search an element and show the result accordingly. | 9/5/22 | 9/5/22 |
| **11** | Write a C program to implement inorder, preorder and postorder traversals in a binary search tree. | 10/5/22 | 10/5/22 |
| **12** | Write a C program to sort all the data in a binary search tree either in ascending order or in Descending order. | 10/5/22 | 10/5/22 |
| **13** | Write a C/C++ program to find a spanning tree from a connected graph by using Depth First Search. | 3/6/22 | 3/7/22 |
| **14** | Write a C/C++ program to find a spanning tree from a connected graph by using Breadth First Search. | 4/6/22 | 3/7/22 |
| **15** | Write a C/C++ program to find a minimal spanning tree from a weighted connected graph by Kruskal's algorithm. | 5/6/22 | 3/7/22 |
| **16** | Write a C/C++ program to find a minimal spanning tree from a weighted connected graph by Prim's algorithm. | 6/6/22 | 3/7/22 |
| **17** | Write a C/C++ program to find all the paths between any two vertices of a connected graph. | 7/6/22 | 3/7/22 |
| **18** | Write a C program to implement bubble sort. Use dynamic memory allocation and subfunction. | 8/6/22 | 3/7/22 |
| **19** | Write a C program to implement insertion sort. Use dynamic memory allocation and subfunction. | 9/6/22 | 3/7/22 |
| **20** | Write a C program to implement selection sort. Use dynamic memory allocation and subfunction. | 10/6/22 | 3/7/22 |
| **21** | Write a C program to implement merge sort. Use dynamic memory allocation and subfunction. | 11/6/22 | 11/6/22 |
| **22A** | Write a C program to create a binary maxheap. | 12/6/22 | 11/6/22 |
| **22B** | Write a C program to create a binary minheap. | 12/6/22 | 11/6/22 |
| **23A** | Write a C program to create a k-ary maxheap. | 13/6/22 | 13/6/22 |
| **23B** | Write a C program to create a k-ary minheap. | 13/6/22 | 13/6/22 |
| **24A** | Write a C program to sort (ascending) a list of elements through a binary heap. | 14/6/22 | 14/6/22 |
| **24B** | Write a C program to sort (descending) a list of elements through a binary heap. | 14/6/22 | 14/6/22 |
| **25** | Write a C program to sort (ascending or descending) a list of elements through a k-ary heap. | 15/6/22 | 30/6/22 |
| **26** | Write a C program to implement parenthesization problem. (Matrix chain multiplication). | 16/6/22 | 30/6/22 |
| **27** | Write a C program to implement Red-Black tree. | 17/6/22 | 30/6/22 |
| **28** | Write a C program to delete an element from a Red-Black tree. | 18/6/22 | 30/6/22 |
| **29** | Write a C program to implement Naive String Matching algorithm. | 12/7/22 | 3/7/22 |
| **30** | Write a C program to implement KMP String Matching algorithm. | 12/7/22 | 3/7/22 |
| **31** | Write a C program to sort a list of numbers by using quick sort. | 12/7/22 | 3/7/22 |
| **32** | Write a C program to implement Counting sort. | 13/7/22 | 3/7/22 |
| **33** | Write a C program to implement Radix sort. | 13/7/22 | 3/7/22 |
| **34** | Write a C program to implement Bucket sort. | 13/7/22 | 3/7/22 |