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| **Sr. no.** | **Program Name** | **Date** | **R1** | **R2** | **R3** | **R4** | **R5** | **Total Marks** | **Signature** |
| 1. | To implement following sorting techniques and analyze their time complexity.   1. Bubble sort 2. Bucket sort 3. Radix sort 4. Shell sort 5. Selection sort 6. Heapsort 7. Insertion Sort | 21-09-2021  21-09-2021  28-09-2021  28-09-2021  28-09-2021  05-10-2021  05-10-2021 |  |  |  |  |  |  |  |
| 2. | To implement Linear search and Binary search and analyse its time complexity. | 19-10-2021 |  |  |  |  |  |  |  |
| 3. | To implement divide and conquer techniques and analyse its time Complexity.   1. Merge sort 2. Quick sort 3. Matrix Multiplication and Strassen’s Algorithm | 26-10-2021 |  |  |  |  |  |  |  |
| 4. | To implement dynamic programming techniques and analyse its time complexity.   1. LCS (Longest Common Subsequence) 2. Matrix Chain Multiplication 3. Optimal Binary Search 4. Binomial Coefficient | 09-11-2021 |  |  |  |  |  |  |  |
| 5. | To implement Algorithms using Greedy Approach and analyse its time complexity.   1. Knapsack problem 2. Activity Selection 3. Huffman Encoding 4. Task Scheduling Problem | 16-11-2021 |  |  |  |  |  |  |  |
| 6. | To implement Dijkstra’s Algorithm and analyse its time complexity. | 30-11-2021 |  |  |  |  |  |  |  |
| 7. | To implement minimum spanning trees algorithm and analyse its time complexity.   1. Krushkal’s Algorithm 2. Prim’s Algorithm | 07-12-2021 |  |  |  |  |  |  |  |
| 8. | To implement String matching algorithm and analyse its time complexity.   1. Naïve Algorithm 2. Rabin Karp Algorithm 3. Knuth Morris Pratt Algorithm | 14-12-2021 |  |  |  |  |  |  |  |