

AIM:

To understand the running time of an algorithms.

OBJECTIVES:

- To understand the need for analyzing algorithms.
- To understand that algorithms execution speed cannot be expressed as a fixed time quantity.
- To know the ways of estimating time speed for different algorithms
- To study about applications of the different algorithms.
- To know about the various tools available for analyzing algorithms.

Implement the following

1. Simple recursive programs like Towers of Hanoi , Generating Permutations.
2. Sort algorithms.
3. Randomized quick sort algorithm.
4. Merge sort using Divide and Conquer approach.
5. Generation of Huffman code using Greedy Approach.
6. Floyd's Algorithm -Dynamic Programming.
7. Simplex Method.
8. String matching algorithms.
9. Study of Benchmarking algorithms.
10. Study of Algorithms Tools.

TOTAL: 45 PERIODS