

VPM's B.N. Bandodkar College of Science Thane (Autonomous)  
S.Y.BSc Computer Science

Fundamentals of Algorithms

Subject code: BNBUSCS4T1

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Sr.No.	Practical Aim	Date	Signature
1.	Write a Python program to perform matrix multiplication. Discuss the complexity of algorithms used.		
2.	Write a Python program to sort n names using the Quick sort algorithm. Discuss the complexity of algorithms used.		
3.	Write a Python program to sort n numbers using the Merge sort algorithm. Discuss the complexity of algorithms used.		
4.	Write a Python program for inserting an element into binary tree.		
5.	Write Python program for deleting an element (assuming data is given) from binary tree.		
6.	Write Python program for finding the smallest and largest elements in an array A of size n using Selection algorithm.		
7.	Write Python program for implementing Huffman Coding Algorithm. Discuss the complexity of algorithm		
8.	Write Python program for implementing Strassen's Matrix multiplication using Divide and Conquer method.		