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Data Structure Lab

CEN-391

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LAB FILE

Name : Vicky Gupta

Roll No. : 20BCS070

Branch : Computer Engineering

Subject : Data Structure Lab

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| --- | --- | --- |
| SNO | Programs | Date |
| 1 | Write a menu driven program having the following option. Make user defined functions for each option.  1. Factorial of a Given no  2. Sum of Natural Series up to n terms  3. Print Fibonacci Series up to n terms  4. Power of a and b  5. Exit | 14/09 |
| 2 | 1. Write a program to sort n elements of array using bubble sort. Show Each Iteration of bubble sort.2. Write a program to sort n elements of array using Early termination bubble sort. Show Each Iteration of bubble sort | 22/09 |
| 3 | Write a menu program to maintain record of 10 employees in structure. | 5/10 |
| 4 | Menu driven program to maintain records of n employees dynamically in structure, where n is taken as input from user. | 12/10 |
| 5 | Write a menu program to maintain records of employees in structure. | 26/10 |
| 6 | 1. Menu driven program to implement stack using array  2. Menu driven program to implement stack using linked list | 02/10 |
| 7 | Write a menu driven program to implement normal Queue operations using Array. | 09/11 |
| 8 | Write a menu driven program to implement Circular Queue operations using Array. | 16/11 |
| 9 | Write a menu driven program to implement Simple Queue operations using Linked List. | 23/11 |
| 10 | Write a menu driven program to implement Priority Queue operations using Linked List | 30/11 |
| 11 | Write a menu driven program to implement Singly Linked List having following operations. | 07/12 |
| 12 | Write a menu driven program to implement doubly Linked List having following operations. | 14/12 |