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| **Ass**  **No** | **Experiment Name** | **A1** | **A2** | **A3** | **A4** |
| 1 | Write a Python program using functions to compute following: -  a) List of students who play both cricket and badminton  b) List of students who play either cricket or badminton but not both  c) Number of students who play neither cricket nor badminton  d) Number of students who play cricket and football but not badminton. | 23/8/2023 | 25/8/2023 | 25/8/2023 | 23/8/2023 |
| 2 | Write a Python program to store marks scored in subject “Fundamental of Data Structure” by N students in the class. Write functions to compute following:  a) The average score of class  b) Highest score and lowest score of class  c) Count of students who were absent for the test  d) Display mark with highest frequency | 5/9/2023 | 28/8/2023 | 1/9/2023 | 4/9/2023 |
| 3 | Write a Python program to compute following computation on matrix:  a) Addition of two matrices  b) Subtraction of two matrices  c) Multiplication of two matrices  d) Transpose of a matrix | 13/9/2023 | 4/9/2023 | 12/9/2023 | 13/9/2023 |
| 4 | a) Write a Python program to store names and mobile numbers of your friends in sorted order on names. Search your friend from list using binary search (recursive and non-recursive). Insert friend if not present in phonebook  b) Search your friend from list using Fibonacci search. Insert friend if not present in phonebook. | 15/9/2023 | 16/10/2023 | 17/10/2023 | 20/9/2023 |
| 5 | Write a Python program to store first year percentage of students in array. Write function for sorting array of floating-point numbers in ascending order using a) Selection Sort b) Bubble sort and display top five scores | 17/10/2023 | 23/10/2023 | 20/10/2023 | 16/10/2023 |
| 6 | Write a Python program to store first year percentage of students in array. Write function for sorting array of floating-point numbers in ascending order using quick sort and display top five scores. | 18/10/2023 | 27/10/2023 | 25/10/2023 | 23/10/2023 |
| 7 | Write C++ program to maintain 'Pinnacle Club'.  member‘s information using singly linked list. Store student PRN and Name. Write functions to  a) Add and delete the members as well as president or even secretary.  b) Compute total number of members of club  c) Display members  d) Display list in reverse order using recursion  e) Two linked lists exist for two divisions. Concatenate two lists. | 31/10/2023 | 30/10/2023 | 30/10/2023 | 25/10/2023 |
| 8 | Write C/C++ program to store two sets using linked list. compute and display   1. Set of students who like both vanilla and butterscotch 2. Set of students who like either vanilla or butterscotch or but not both 3. Number of students who like neither vanilla nor butterscotch | 1/11/2023 | 3/11/2023 | 1/11/2023 | 6/11/2023 |
| 9 | Write C++ program with functions-  1. To check whether given string is palindrome or not that uses a stack to determine whether a string is a palindrome.  2. To remove spaces and punctuation in string, convert all the Characters to lowercase  3. To print string in reverse order using stack | 3/11/2023 | 3/11/2023 | 3/11/2023 | 6/11/2023 |
| 10 | Write C++ program using stack to check whether given expression is well parenthesized or not. | 7/11/2023 | 6/11/2023 | 6/11/2023 | 20/11/2023 |
| 11 | Write C++ program for simulating job queue. Write functions to add job and delete job from queue. | 8/11/2023 | 7/11/2023 | 7/11/2023 | 20/11/2023 |
| 12 | Write C++ program to simulate deque with functions to add and delete elements from either end of the deque. | 21/11/2023 | 20/11/2023 | 20//11/2023 | 21/11/2023 |
| 13 | Pizza parlor accepting maximum M orders. Orders are served in first come first served basis. Order once placed cannot be cancelled. Write C++ program to simulate the system using circular queue using array. | 22/11/2023 | 21/11/2023 | 21/11/2023 | 22/11/2023 |