Assignment 3

Computer Programming with C

MCA102

Topic: Arrays and Structure

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1. Write a program to store marks for n number of student in an array and print their marks.
2. Write a program that stores the marks of the subject Mathematics and English of n number of students in an array and then prints their total marks.
3. Write a program to insert an element in an array in a particular position.
4. Write a program to delete an element from a particular position of an array.
5. Write a program to convert a decimal number taken as input from a user to the corresponding binary number and store the result in an array.
6. Write a program to input a binary number in an array and convert it into a corresponding decimal number.
7. Write a program to find the smallest and the largest elements in an array.
8. Write a program for deleting duplicate elements in an array.
9. Write a program to search for a particular element in an array.
10. Write a program to sort n elements (ascending order).
11. Write a program to find second second-highest number from the array without using sorting.
12. Write a program to perform addition and subtraction between two matrices.
13. Write a program to transpose a matrix.
14. Write a program to add the elements of each row and each column of a matrix.
15. Write a program to perform the multiplication of two matrices.
16. Write a program to check whether a matrix is an identity matrix or not.
17. Write a program to check whether a matrix is a sparse matrix or not
18. Write a C program to create a structure named company which has name, address, phone and no Of Employee as member variables. Read the name of the company, its address, phone and no Of Employee. Finally display these members‟ values.
19. Define a structure “complex” (typedef) to read two complex numbers and perform addition, and subtraction of these two complex numbers and display the result.
20. Write a C program to read the RollNo, Name, Address, and Age marks of 12 students in the BCT class and display the details from the function.