PROFESSIONAL TRAINING INSTITUTE

An ISO9001:2015 certified training institute

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TRAINING

Assignment - VII

INSTITUTE

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1. **Assignment VII: Array-1D**

   a. Write a program in C to store 5 elements in an array and print all.
   b. Write a program in C to read n number of values in an array and display it in reverse order
   c. Write a program in C to find the sum of all elements of the array. Pass the array to the function and calculate addition of all elements in the function
   d. Write a program to take input your name from keyboard and print it.
   e. Print your name 10 times.
   f. Print your name infinite times.
   g. Write a program in C to copy the elements one array into another array.
   h. Write a program in C to count a total number of repeated elements in an array(1,2,1,4,4,3) answer 2 number are repeating i.e. 1,4
   i. Write a program in C to print all unique (delete the repeated number) elements in an array.(Ex 1,4,5,2,4,3,8,9,8 output is 1,4,5,2,3,8,9)
   j. Write a program in c to print unique number (Ignore the number if it repeat more than once) (Ex. 1,4,2,3,7,5,7,3,4 output is 1,2,5)
   k. Write a program in C to merge two arrays of same size, print number in descending order.
   l. Write a program in C to find the maximum and minimum element in an array.
   m. Write a program in C to separate odd and even integers in separate arrays and find addition of each even and odd array.
   n. Write a program in C to insert new value in the array on given position.
   o. Write a program in C to delete an element at desired position from an array.
   p. Write a program in C to find the second largest element in an array.
   q. Sort array in ascending order.
   r. Find the vowels from the name (any name).
   s. One array of 10 element contains only two number 2 and 3, write a program to separate 2 on left side and 3 on right side.
   t. Write C program to left rotate an array. (0th element will become last element, and other will shifts).
   u. C Program Read in array of 10 integer and take another input from user of which element he want to search in that array, if element found then display the position on which it found. If not found then display element not exists in array.
   v. Enter your name and print in reverse order

2. Theory question need to clear
    a. What is array?
    b. What is the use of array?
    c. Why first element of array is always at 0 index? Can it be start from 1?
    d. Can we store two different datatype into same array? What is the complication associated with it?
    e. What is linear search? Write a program to search element into array? What is the use of linear search?
    f. How much memory int array[10] will consume?
    g. How much memory char name[15] will consume?
    h. What is the difference between char array and string?
    i. How to initialize char array on compile time and run time?
    j. Can we store char into int array?
    k. What will happens if print int array by using %c?
    l. What is bubble sort algorithm ?
    m. What is shortest method to search element into sorted int array of 20 elements.
    n. If you store your name into char array, add 1 to each element of char array then what output you will get? Are you getting any junk charter, if yes then why?
    o. How to pass array into function?