Programming Fundamentals

Lecture # 32

Ehtisham Rasheed

Department of Computer Science
University of Gurjat, Gujrat

UNIVERSITY OF GUJRAT

Problem 1

- Write a program to input 10 numbers from user and then copy the array elements into another array with and without function

Problem 2

- Twenty-five numbers are entered from the keyboard into an array. The number to be searched is entered through the keyboard by the user. Write a program to find if the number to be searched is present in the array and if it is present, display the number of times it appears in the array

Problem 3

- Twenty-five numbers are entered from the keyboard into an array. Write a program to find out how many of them are positive, how many are negative, how many are even and how many odd

Problem 4

- Write a program to copy the contents of one array into another in the reverse order

Problem 5

- Write a program which performs the following tasks:

  i. Initialize an integer array of 10 elements in **main()**

  ii. Pass the entire array to a function **modify()**

  iii. In **modify()** multiply each element of array by 3

  iv. Return the control to **main()** and print the new array elements in **main()**

Problem 6

- Write a program to read 20 numbers from user, each of which is between 10 and 100. As each number is read, validate it and store it in the array only if it is not a duplicate of a number already read. After reading all values, display only the unique values that the user entered.

Problem 7

- Write a C++ program that declares an array **alpha** of 50 components of type **double**. Initialize the array so that the first 25 components are equal to the square of the index variable, and the last 25 components are equal to three times the index variable. Output the array so that 10 elements per line are printed.

Problem 8

- Write a C++ function, **smallestIndex**, that takes as parameters an int array and its size and return the index of the first occurrence of the smallest element in the array. Also, write a program to test your function.