**Programming Fundamentals**

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| Lab 01 | |
| **Topic** | ITC-Revision |
| **Objective** | * Revision of Basic concepts of ITC. |

# Lab Task 1

Write a C++ program which declares an array of size 10. Take 10 input from the user and print these values.

**Sample Output:**

Enter 10 integer values: 5 9 2 1 0 4 5 6 7 8

The entered values are: 5 9 2 1 0 4 5 6 7 8

# Lab Task 2

Write a C++ program which declare an array of size 15. Subtract 5 to each value of the array and print original and new values on the screen.

**Sample Output:**

Enter 15 integer values: 5 9 2 1 0 4 5 6 7 8 9 10 11 12 0

The original values are: 5 9 2 1 0 4 5 6 7 8 9 10 11 12 0

Values after subtraction are: 0 4 -3 -4 -5 -1 0 1 2 3 4 5 6 7 -5

# Lab Task 3

Write a C++ program which initializes an array of size 10. Print elements on even indexes first and then odd indexes on screen.

**Sample Output:**

Elements in array are: 5 9 2 1 0 4 5 6 7 8

Elements on even indexes are: 5 2 0 5 7

Elements on odd indexes are: 9 1 4 6 8

# Lab Task 4

Write a C++ program which initializes an array of size 10. Add all values of array and print the resultant value on screen.

**Sample Output:**

Elements in array are: 5 9 2 1 0 4 5 6 7 8

The sum of all the elements in the array are: 47

# Lab Task 5

Write a C++ program which initializes an array of size 10. Find the average of the array’s values and print the result on console.

**Sample Output:**

Elements in array are: 5 9 2 1 0 4 5 6 7 8

The sum of all the elements in the array are: 4.7

# Lab Task 6

Write a C++ program that finds either a number entered by user is a prime or not and display the results on screen.

**Sample Output:**

Enter an integer value: 75

The entered value 75 is not a prime number

# Lab Task 7

Write a C++ program that finds the maximum number in an integer array and display it on console screen.

**Sample Output:**

Enter 5 integer values: 75 25 -34 200 65

The maximum value in array is 200