

Course Instructor: **Md. Asif Khan Rifat**
Course: **CSE103 (Structured Programming)**

Lab: **05**

Topics Today

1. 1D Array

Problem 1

Write a program in C to read n number of characters in an array and display them in reverse order.

Sample Input	Sample Output
Enter Array Size: 5 p r o g r a m	m a r g o r p

Problem 2

Write a C program to read n number of values in an array and print their average value.

Sample Input	Sample Output
3 6 2 12 4 35 9 3	Average is 9.25

Problem 3

Write a C program to count total number of even and odd elements in an array.

Sample Input	Sample Output
1 13 90 3 6 2 12 4 35 9 3 99	Even numbers: 5 Odd numbers: 7

Problem 4

Write a C program to merge two arrays to third array.

Sample Input	Sample Output
1 st Array: 1 13 90 3 6 2 nd Array: 2 12 4 35 9 3 99	Merged Array: 1 13 90 3 6 2 12 4 35 9 3 99

Problem 5

Write a C program to search for an element and print its index if found in an array.

Sample Input	Sample Output
3 6 2 12 4 35 9 3 Target: 12	Target 12 is found at index 3
Target: 67	Target 67 is not found

Problem 6

Find the largest difference between any two elements in an array.

Sample Input	Sample Output
3 6 2 12 4 35 9 3	The largest difference is 33