



# **Bangladesh University of Business and Technology**

## **Lab Report - 1**

**Dept. Name : Computer Science and Engineering**

**Course Name : Data Structure Lab**

**Course Code : CSE 222**

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**Dept. of Computer Science and Engineering**

**Submission Date : 01-24-25**

**Exp name::** Write a program that takes array elements from user and prints those array elements:-

**Code:**

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    int n;
    cout << "Enter your array size: ";
    cin >> n;

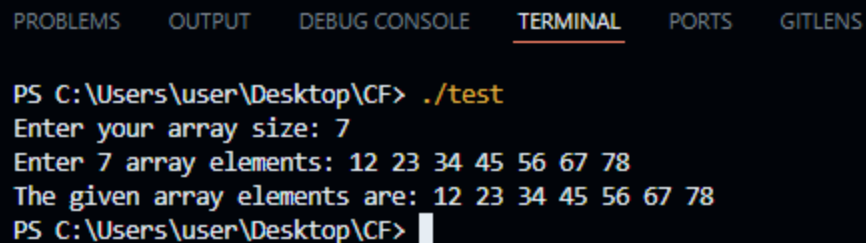
    int A[n];
    cout << "Enter " << n << " array elements: ";

    for (int i = 0; i < n; i++)
    {
        cin >> A[i];
    }

    cout << "The given array elements are: ";
    for (int i = 0; i < n; i++)
    {
        cout << A[i] << " ";
    }

    cout << endl;
}
```

**Output:**



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  GITLENS

PS C:\Users\user\Desktop\CF> ./test
Enter your array size: 7
Enter 7 array elements: 12 23 34 45 56 67 78
The given array elements are: 12 23 34 45 56 67 78
PS C:\Users\user\Desktop\CF> 
```

**Exp name::** Write a program that takes array elements from user and prints the largest element of the array::-

**Code:**

```
#include <bits/stdc++.h>
using namespace std;

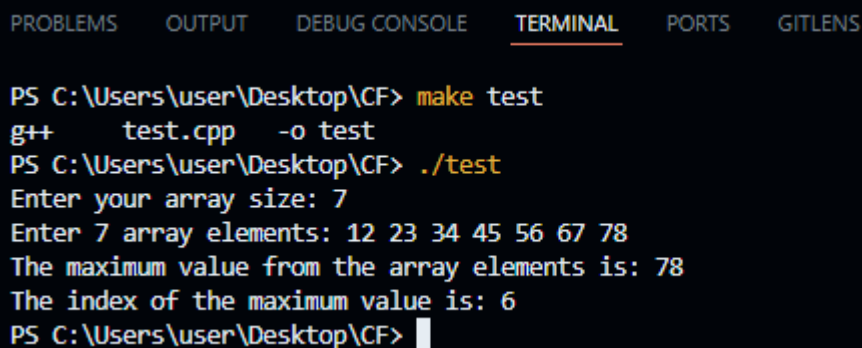
int main()
{
    int n;
    cout << "Enter your array size: ";
    cin >> n;

    int A[n];
    cout << "Enter " << n << " array elements: ";
    for (int i = 0; i < n; i++)
    {
        cin >> A[i];
    }

    int MAX = A[0];
    int MAX_Index = INT_MAX;

    for (int i = 1; i < n; i++)
    {
        if (MAX < A[i])
        {
            MAX = A[i];
            MAX_Index = i;
        }
    }
    cout << "The maximum value from the array elements is: " << MAX;
    cout << endl << "The index of the maximum value is: " << MAX_Index
        << endl;
}
```

**Output:**



The screenshot shows a terminal window with a dark background and light-colored text. At the top, there are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is active and underlined), 'PORTS', and 'GITLENS'. The terminal content shows the execution of a C++ program. The user enters '7' for the array size and then '12 23 34 45 56 67 78' for the array elements. The program outputs 'The maximum value from the array elements is: 78' and 'The index of the maximum value is: 6'. The prompt 'PS C:\Users\user\Desktop\CF>' is visible at the bottom.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  GITLENS

PS C:\Users\user\Desktop\CF> make test
g++    test.cpp    -o test
PS C:\Users\user\Desktop\CF> ./test
Enter your array size: 7
Enter 7 array elements: 12 23 34 45 56 67 78
The maximum value from the array elements is: 78
The index of the maximum value is: 6
PS C:\Users\user\Desktop\CF> 
```