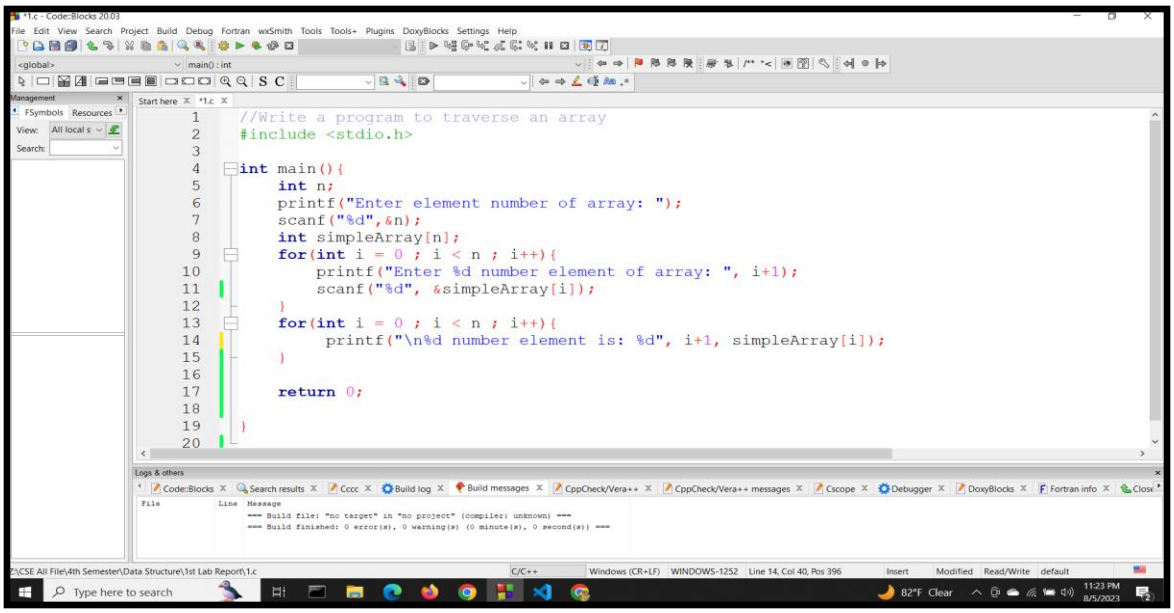
Report No : 1

Report Name : Write a program to traverse an array



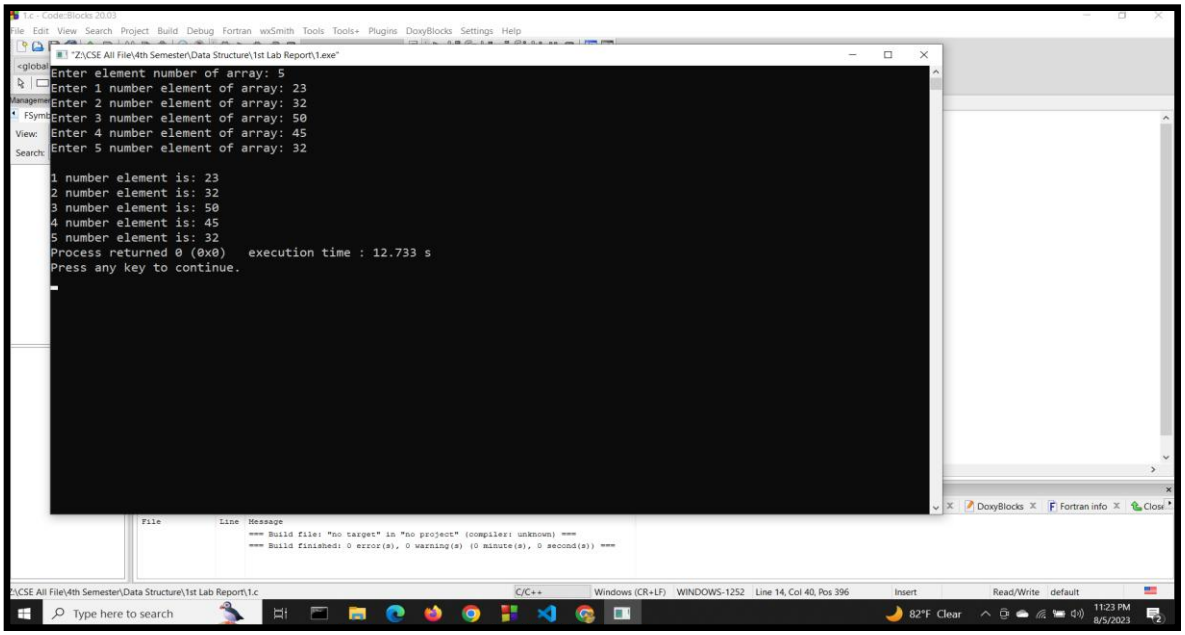
```c
//Write a program to traverse an array
#include <stdio.h>

int main(){
    int n;
    printf("Enter element number of array: ");
    scanf("%d",&n);
    int simpleArray[n];
    for(int i = 0 ; i < n ; i++){
        printf("Enter %d number element of array: ", i+1);
        scanf("%d", &simpleArray[i]);
    }
    for(int i = 0 ; i < n ; i++){
         printf("\n%d number element is: %d", i+1, simpleArray[i]);
    }

    return 0;

}
```

OutPut :

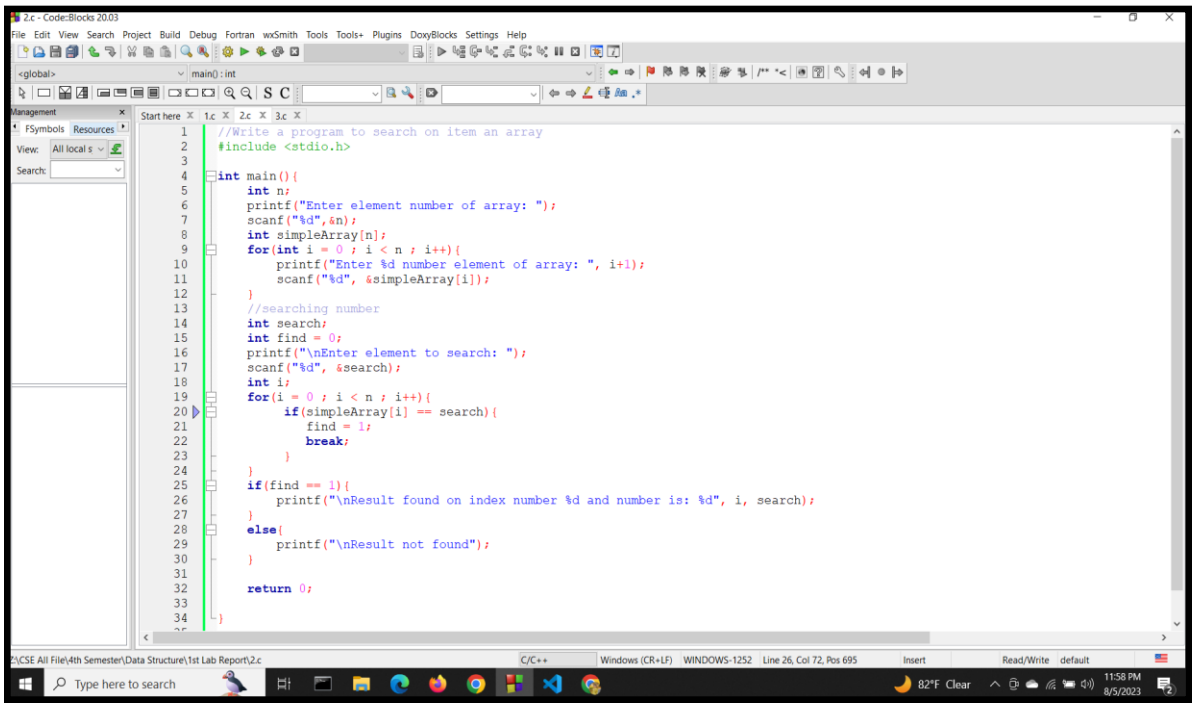


```
Enter element number of array: 5
Enter 1 number element of array: 23
Enter 2 number element of array: 32
Enter 3 number element of array: 50
Enter 4 number element of array: 45
Enter 5 number element of array: 32

1 number element is: 23
2 number element is: 32
3 number element is: 50
4 number element is: 45
5 number element is: 32
Process returned 0 (0x0)   execution time : 12.733 s
Press any key to continue.
```

Report No : 2

Report Name : Write a program to search on item into an array

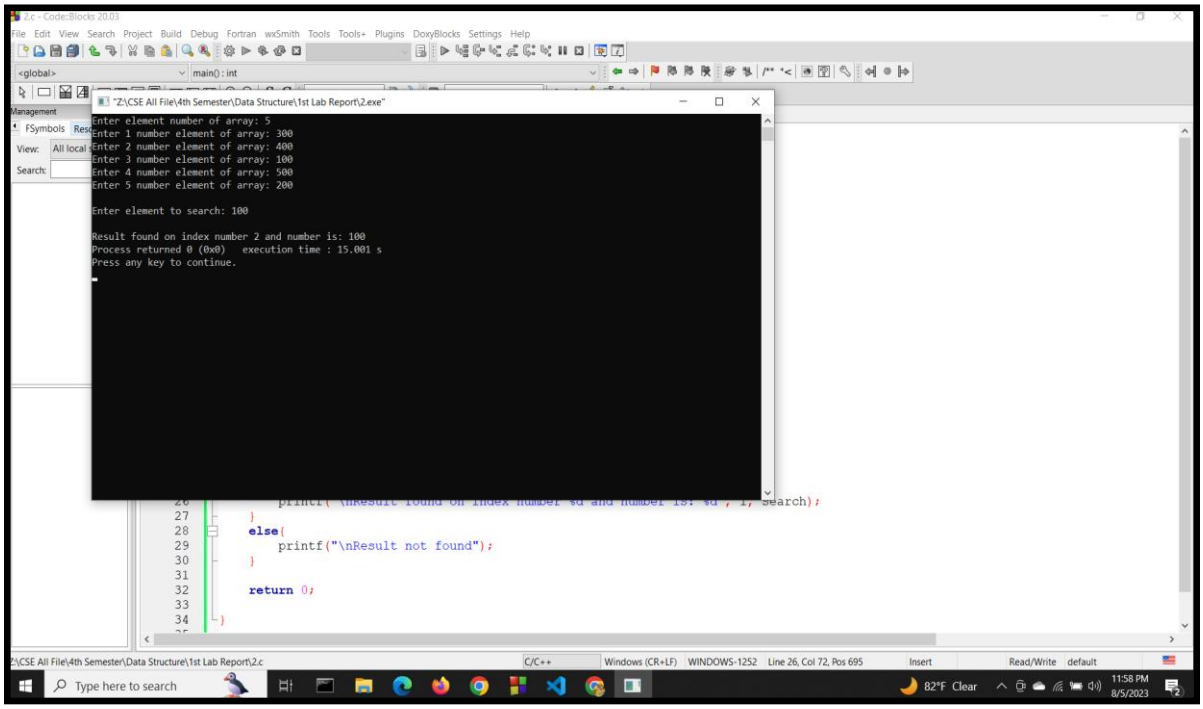


```c
//Write a program to search on item an array
#include <stdio.h>

int main(){
    int n;
    printf("Enter element number of array: ");
    scanf("%d",&n);
    int simpleArray[n];
    for(int i = 0 ; i < n ; i++){
        printf("Enter %d number element of array: ", i+1);
        scanf("%d", &simpleArray[i]);
    }
    //searching number
    int search;
    int find = 0;
    printf("\nEnter element to search: ");
    scanf("%d", &search);
    int i;
    for(i = 0 ; i < n ; i++){
         if(simpleArray[i] == search){
            find = 1;
            break;
         }
    }
    if(find == 1){
        printf("\nResult found on index number %d and number is: %d", i, search);
    }
    else{
        printf("\nResult not found");
    }

    return 0;
}
```

OutPut :



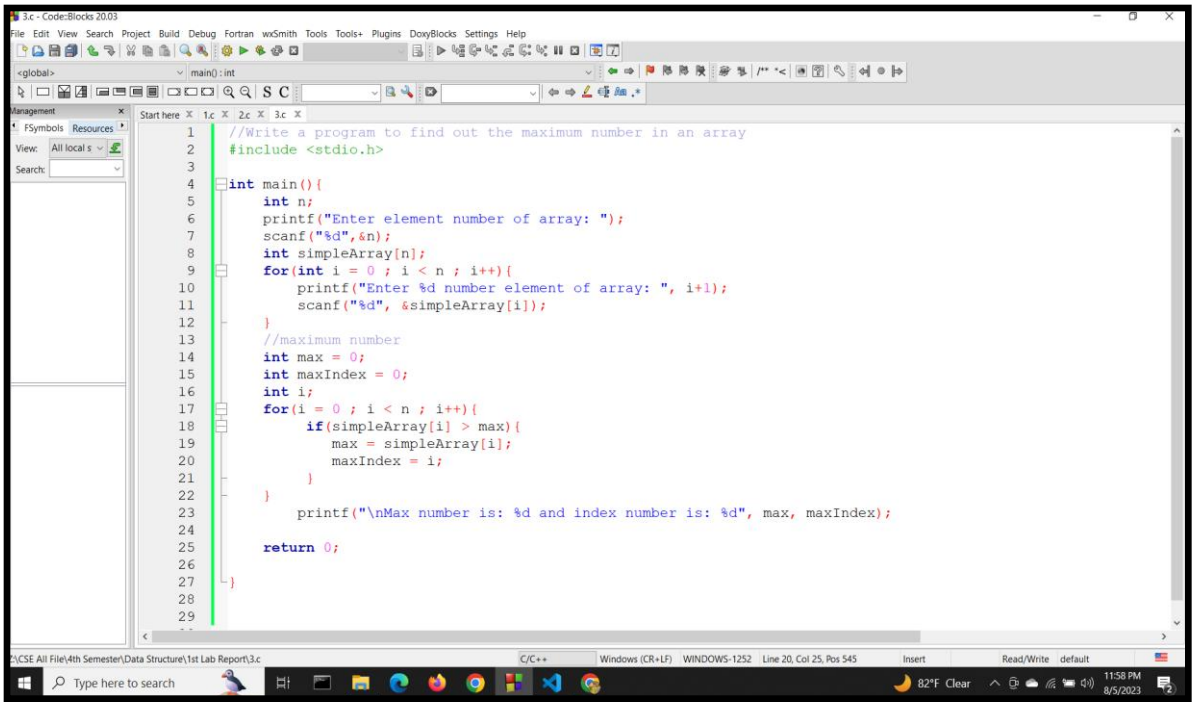
```
"Z:\CSE All File\4th Semester\Data Structure\1st Lab Report\2.exe"
Enter element number of array: 5
Enter 1 number element of array: 300
Enter 2 number element of array: 400
Enter 3 number element of array: 100
Enter 4 number element of array: 500
Enter 5 number element of array: 200

Enter element to search: 100

Result found on index number 2 and number is: 100
Process returned 0 (0x0)   execution time : 15.001 s
Press any key to continue.
```

Report No : 3

Report Name : Write a program to find out the maximum numbers in an array



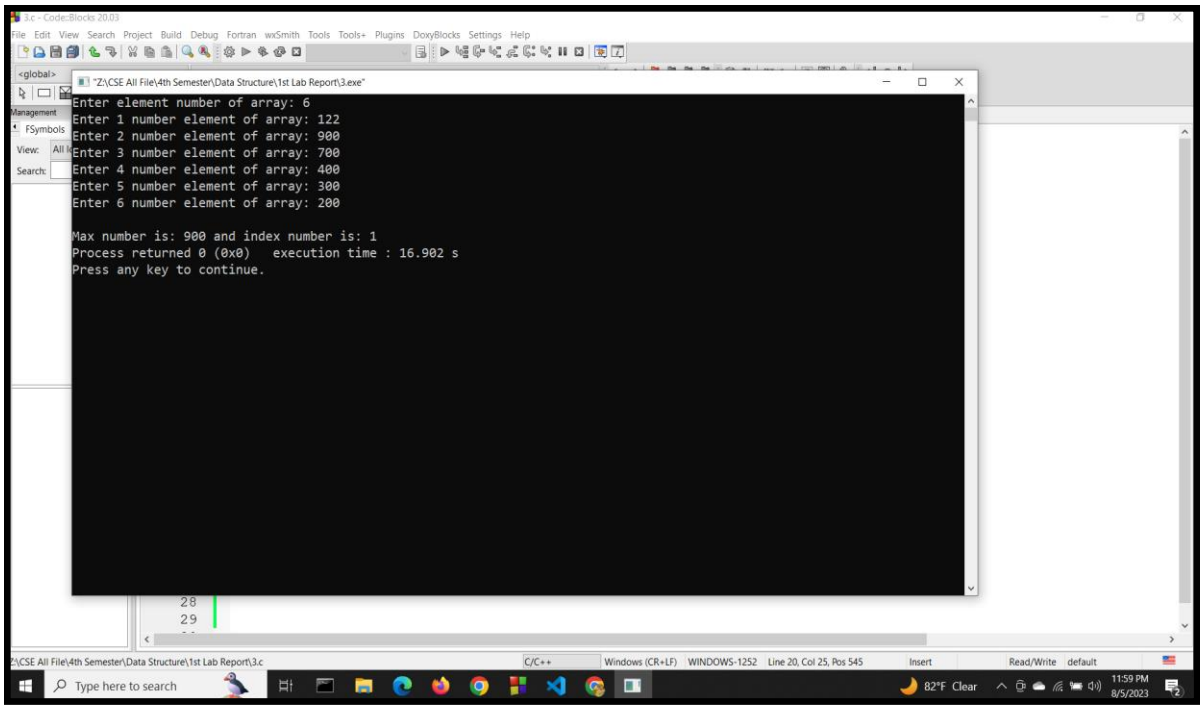
```c
//Write a program to find out the maximum number in an array
#include <stdio.h>

int main(){
    int n;
    printf("Enter element number of array: ");
    scanf("%d",&n);
    int simpleArray[n];
    for(int i = 0 ; i < n ; i++){
        printf("Enter %d number element of array: ", i+1);
        scanf("%d", &simpleArray[i]);
    }
    //maximum number
    int max = 0;
    int maxIndex = 0;
    int i;
    for(i = 0 ; i < n ; i++){
        if(simpleArray[i] > max){
            max = simpleArray[i];
            maxIndex = i;
        }
    }
        printf("\nMax number is: %d and index number is: %d", max, maxIndex);

    return 0;

}
```

OutPut :



```
"Z:\CSE All File\4th Semester\Data Structure\1st Lab Report\3.exe"
Enter element number of array: 6
Enter 1 number element of array: 122
Enter 2 number element of array: 900
Enter 3 number element of array: 700
Enter 4 number element of array: 400
Enter 5 number element of array: 300
Enter 6 number element of array: 200

Max number is: 900 and index number is: 1
Process returned 0 (0x0)   execution time : 16.902 s
Press any key to continue.
```