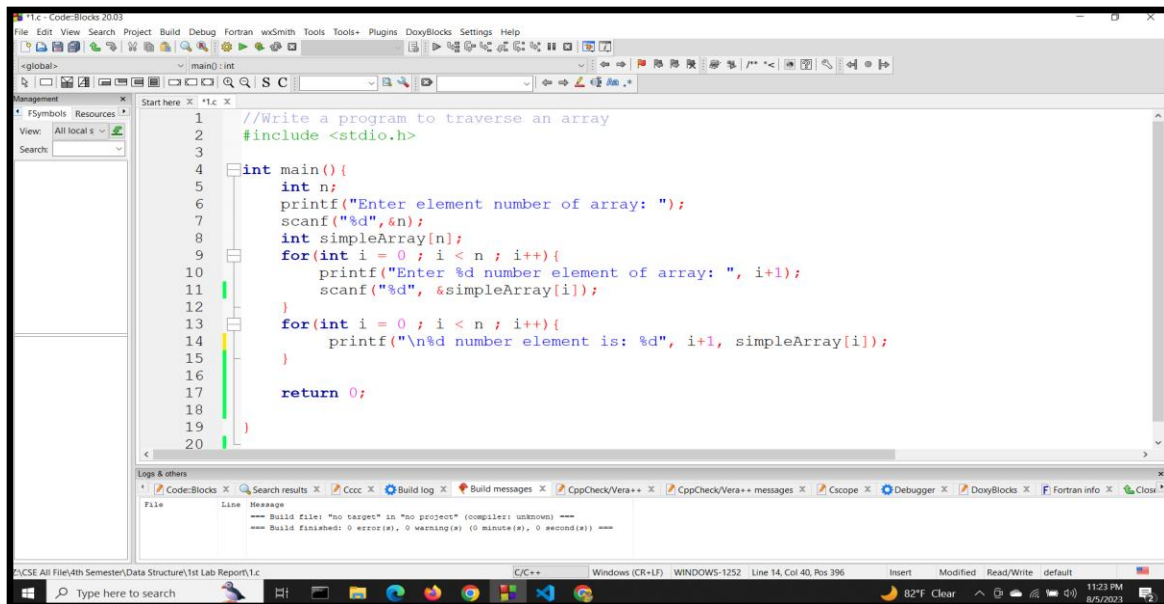


**Report No : 1**

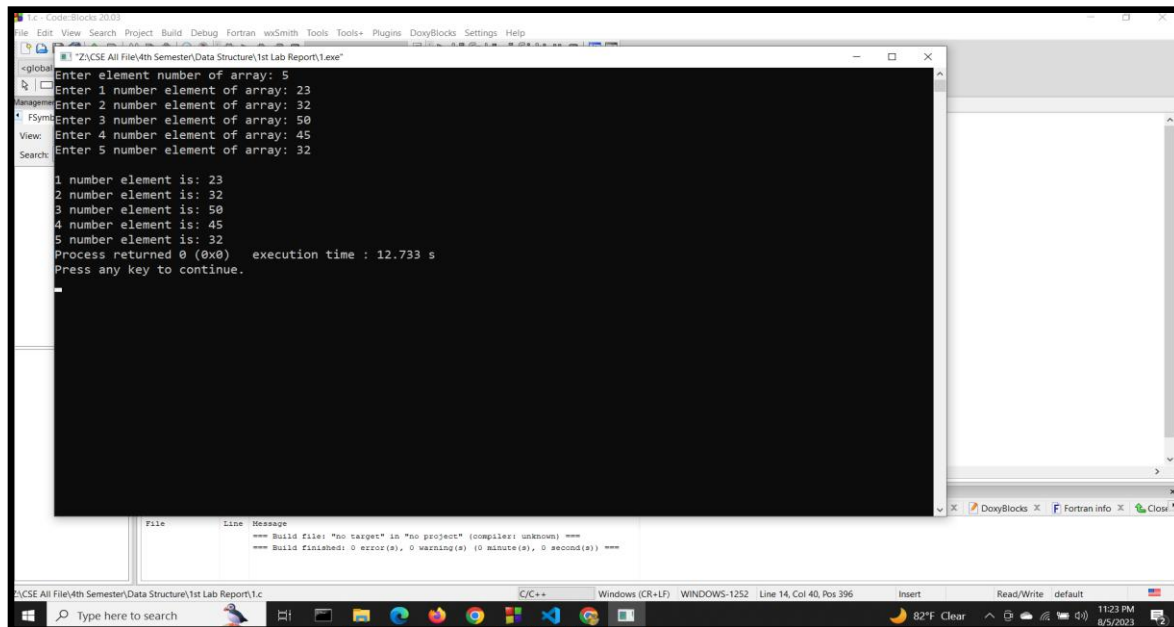
**Report Name : Write a program to traverse an array**



The screenshot shows the Code::Blocks IDE with a C program open. The program is designed to traverse an array. It includes the standard input/output header and defines a main function. Inside the main function, it prompts the user to enter the number of elements in the array, reads the input, and then uses a for loop to traverse the array, printing each element. The program is saved as '1.c' in the 'global' directory.

```
1 //Write a program to traverse an array
2 #include <stdio.h>
3
4 int main(){
5     int n;
6     printf("Enter element number of array: ");
7     scanf("%d",&n);
8     int simpleArray[n];
9     for(int i = 0 ; i < n ; i++){
10         printf("Enter %d number element of array: ", i+1);
11         scanf("%d", &simpleArray[i]);
12     }
13     for(int i = 0 ; i < n ; i++){
14         printf("\n%d number element is: %d", i+1, simpleArray[i]);
15     }
16     return 0;
17 }
18
19
20
```

**OutPut :**



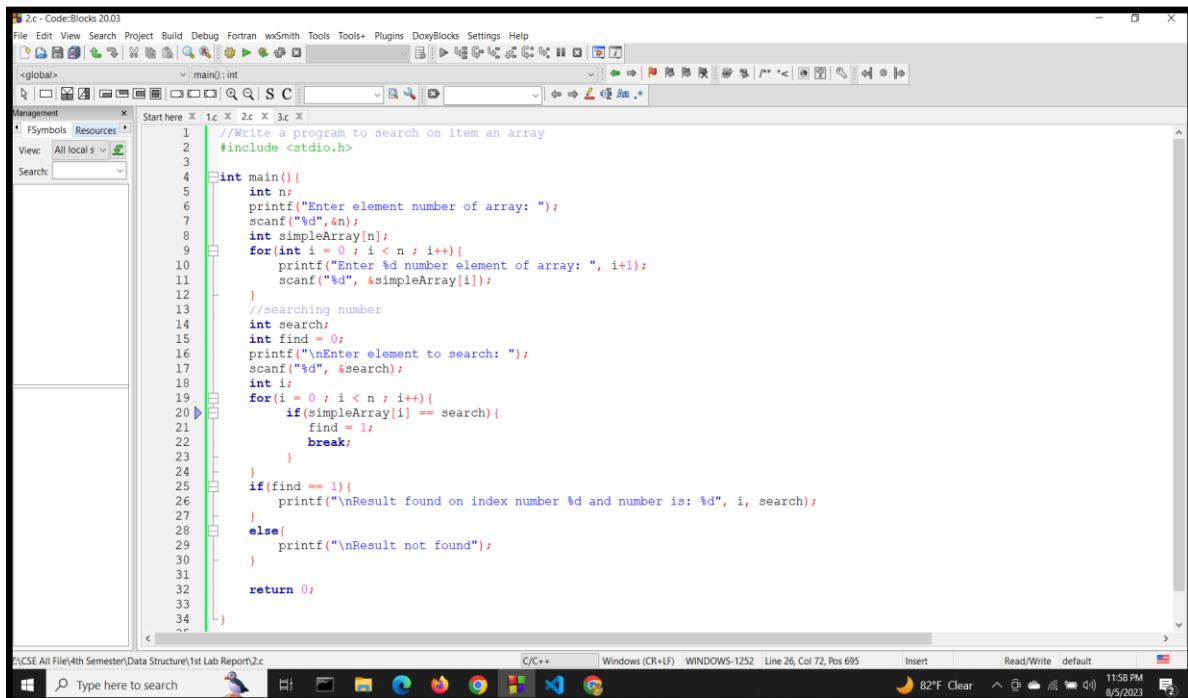
The screenshot shows the Code::Blocks IDE with the output of the program displayed in a terminal window. The user has entered 5 as the number of elements in the array. The program then prompts the user to enter 5 elements, which are 23, 32, 50, 45, and 32. The program then prints each element in order, followed by the execution time and a prompt to press any key to continue.

```
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.
```

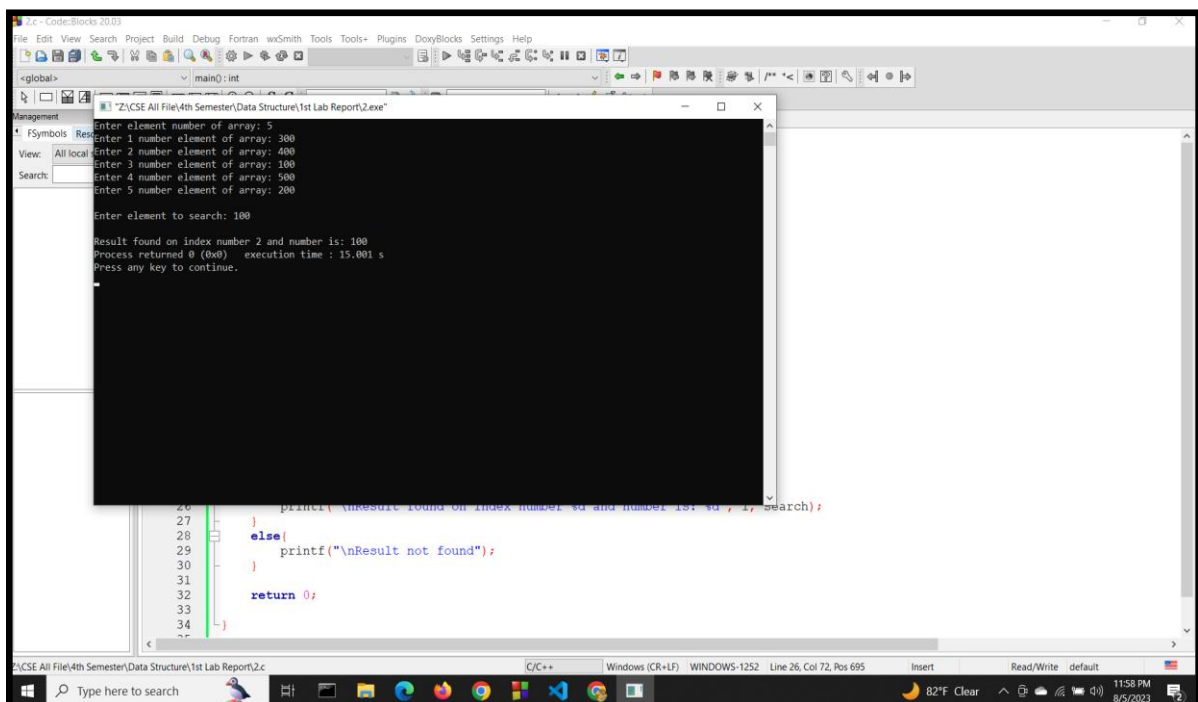
**Report No : 2**

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



```
1 //Write a program to search on item an array
2 #include <stdio.h>
3
4 int main()
5 {
6     int n;
7     printf("Enter element number of array: ");
8     scanf("%d", &n);
9     int simpleArray[n];
10    for(int i = 0 ; i < n ; i++){
11        printf("Enter %d number element of array: ", i+1);
12        scanf("%d", &simpleArray[i]);
13    }
14    //searching number
15    int search;
16    int find = 0;
17    printf("\nEnter element to search: ");
18    scanf("%d", &search);
19    int i;
20    for(i = 0 ; i < n ; i++){
21        if(simpleArray[i] == search){
22            find = 1;
23            break;
24        }
25    }
26    if(find == 1){
27        printf("\nResult found on index number %d and number is: %d", i, search);
28    }
29    else{
30        printf("\nResult not found");
31    }
32    return 0;
33 }
```

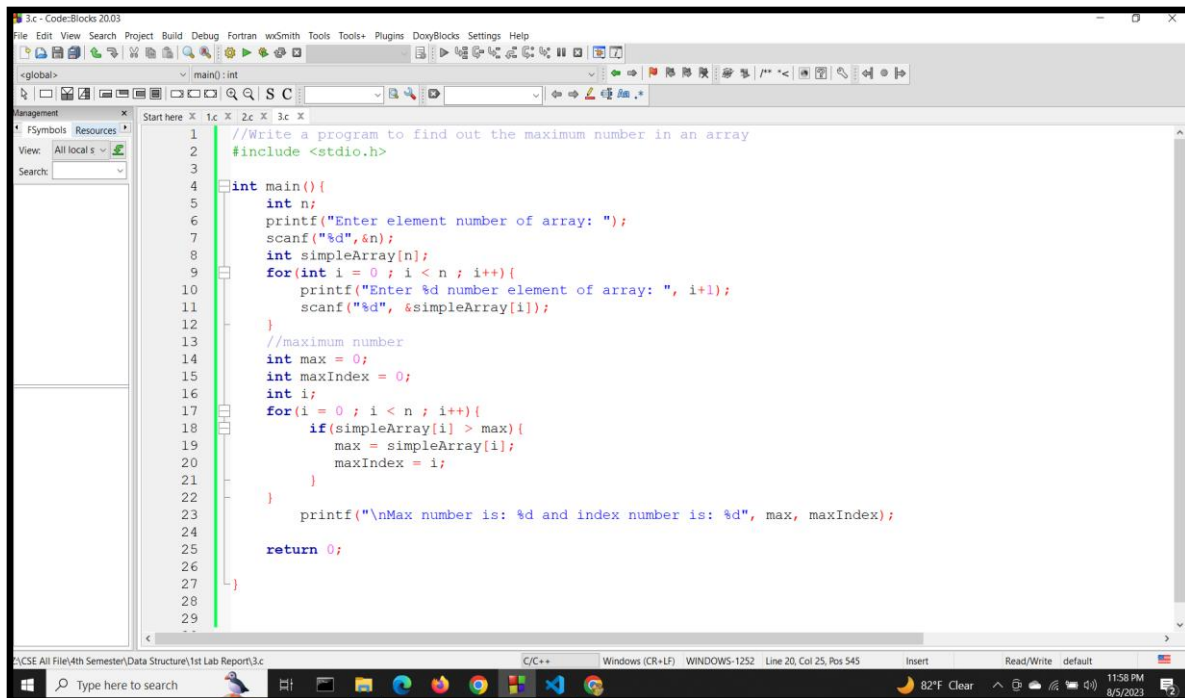
**OutPut :**



```
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.
```

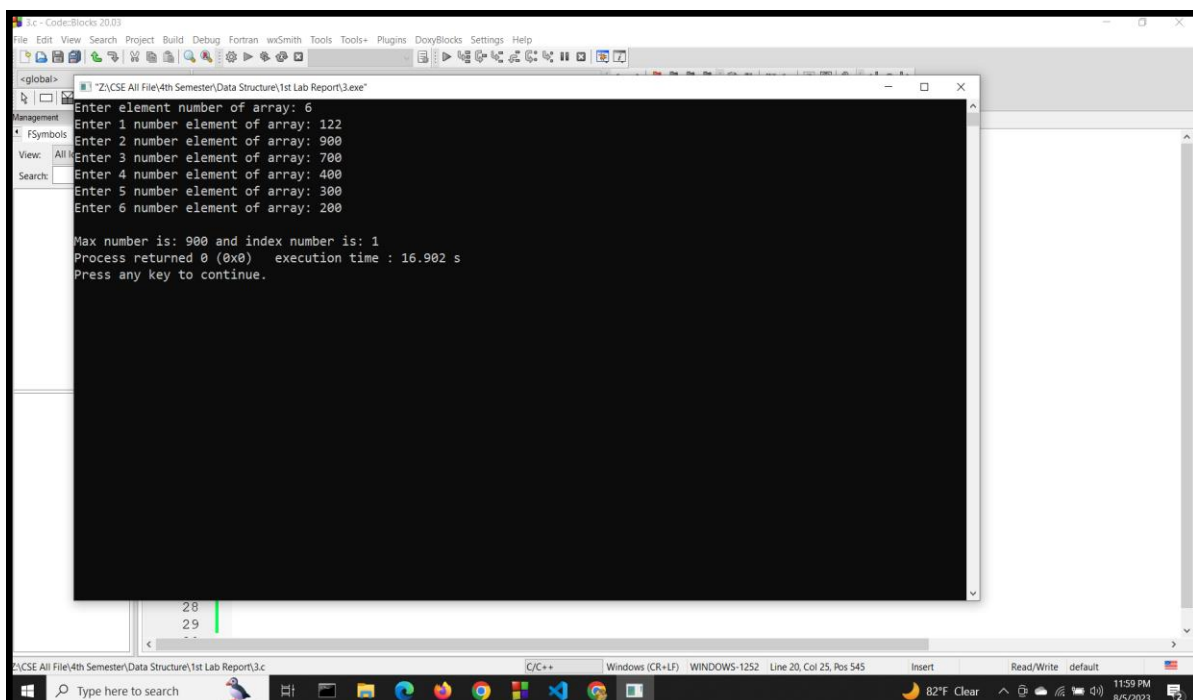
**Report No : 3**

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



```
1 //Write a program to find out the maximum number in an array
2 #include <stdio.h>
3
4 int main(){
5     int n;
6     printf("Enter element number of array: ");
7     scanf("%d",&n);
8     int simpleArray[n];
9     for(int i = 0 ; i < n ; i++){
10         printf("Enter %d number element of array: ", i+1);
11         scanf("%d", &simpleArray[i]);
12     }
13     //maximum number
14     int max = 0;
15     int maxIndex = 0;
16     int i;
17     for(i = 0 ; i < n ; i++){
18         if(simpleArray[i] > max){
19             max = simpleArray[i];
20             maxIndex = i;
21         }
22     }
23     printf("\nMax number is: %d and index number is: %d", max, maxIndex);
24
25     return 0;
26 }
27
28
29
```

**OutPut :**



```
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.
```