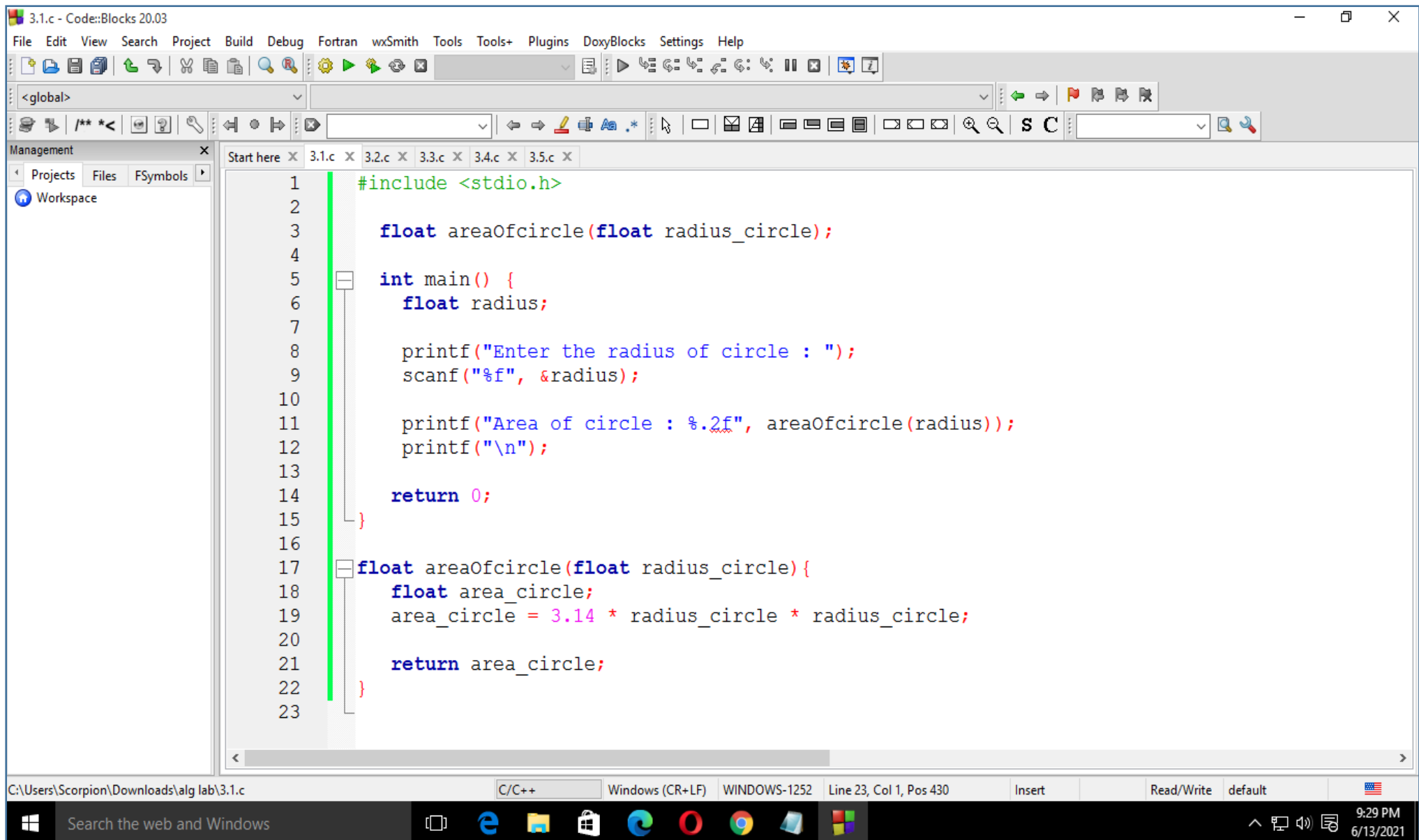


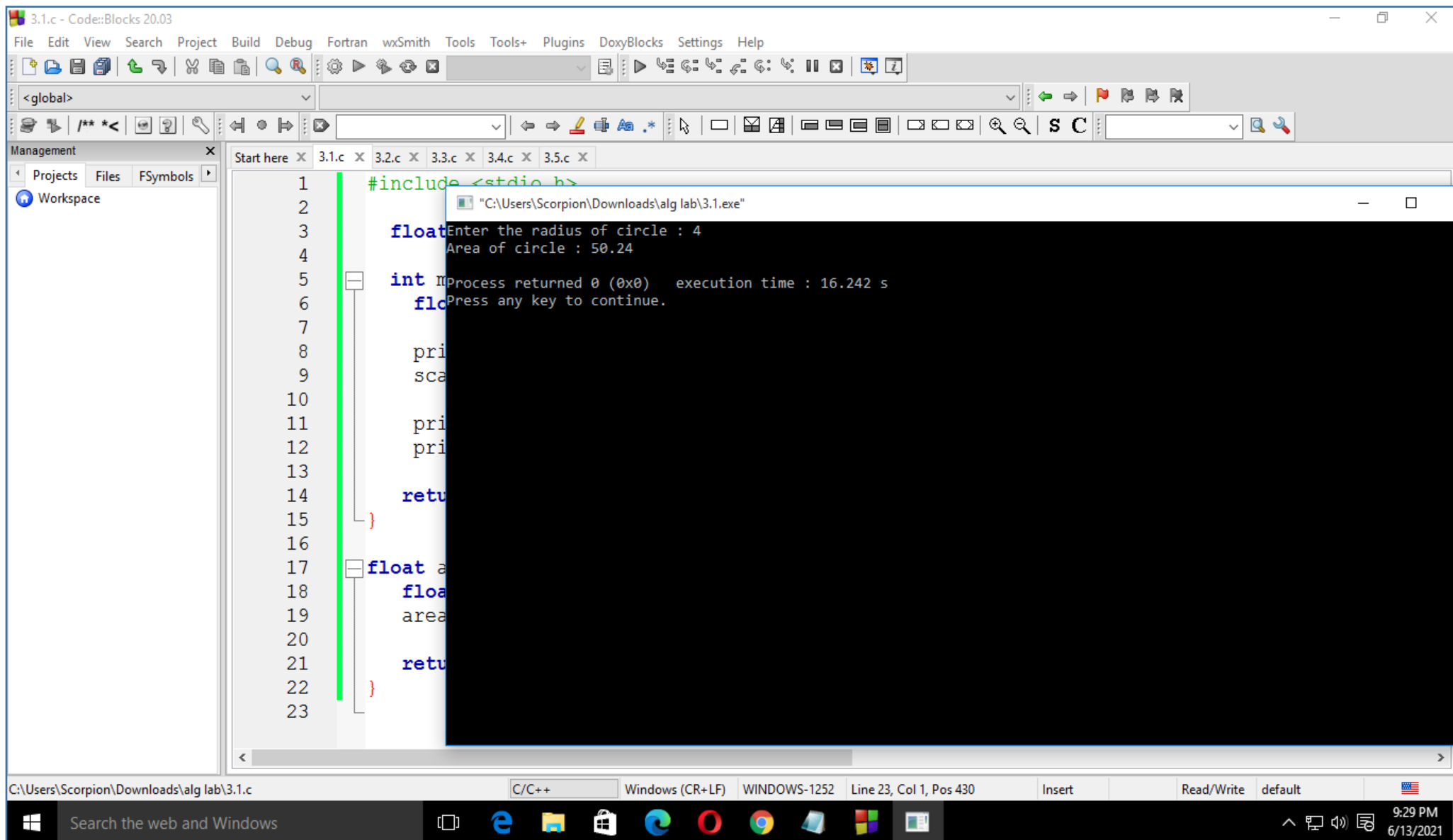
01 no ans :



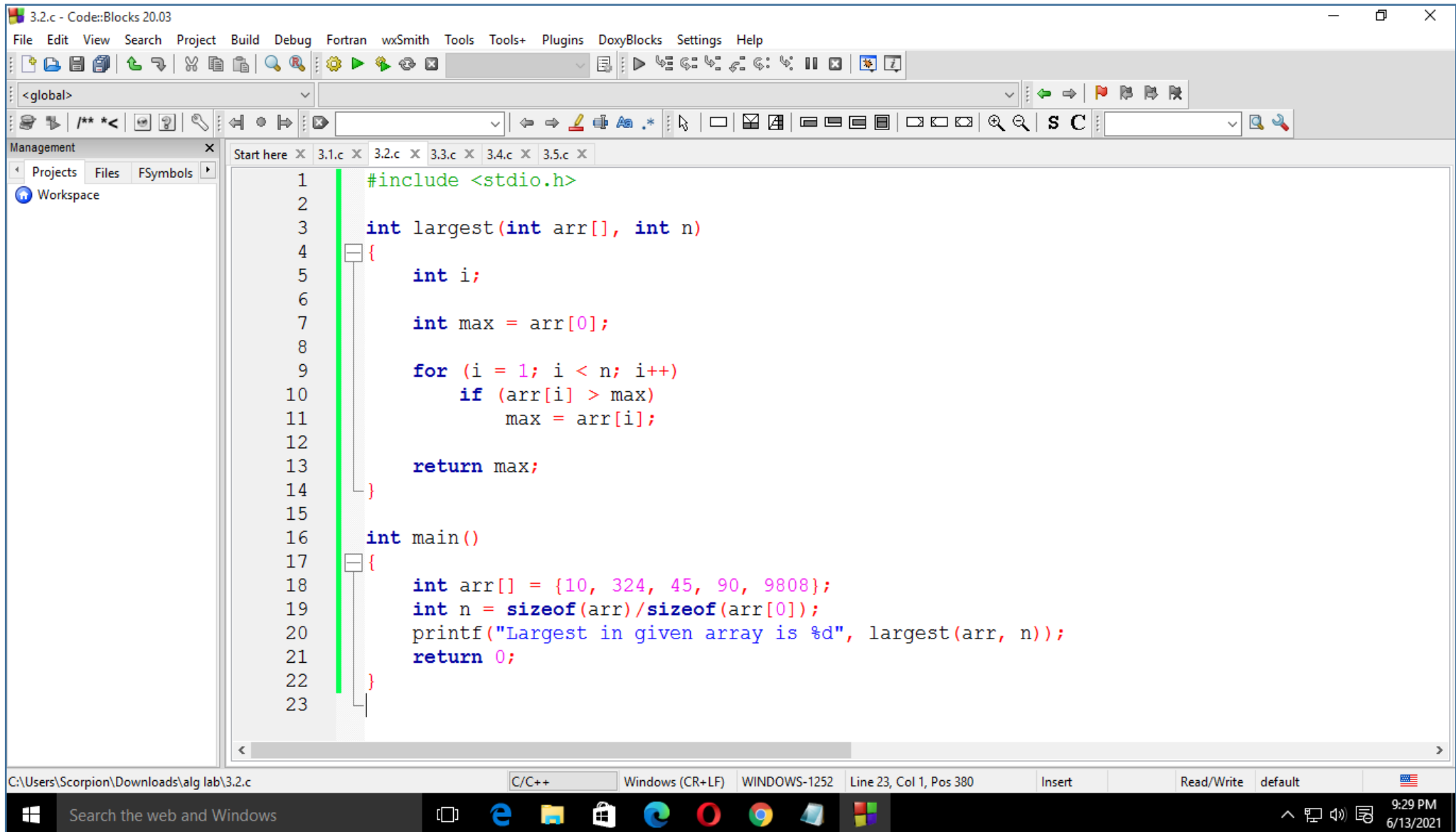
The screenshot shows the Code::Blocks 20.03 IDE with a C program open in the editor. The program calculates the area of a circle. The interface includes a menu bar, a toolbar, a project manager on the left, and a status bar at the bottom.

```
1  #include <stdio.h>
2
3  float areaOfcircle(float radius_circle);
4
5  int main() {
6      float radius;
7
8      printf("Enter the radius of circle : ");
9      scanf("%f", &radius);
10
11     printf("Area of circle : %.2f", areaOfcircle(radius));
12     printf("\n");
13
14     return 0;
15 }
16
17 float areaOfcircle(float radius_circle) {
18     float area_circle;
19     area_circle = 3.14 * radius_circle * radius_circle;
20
21     return area_circle;
22 }
23
```

The status bar at the bottom indicates the file path is C:\Users\Scorpion\Downloads\alg lab\3.1.c, the language is C/C++, and the current position is Line 23, Col 1, Pos 430.



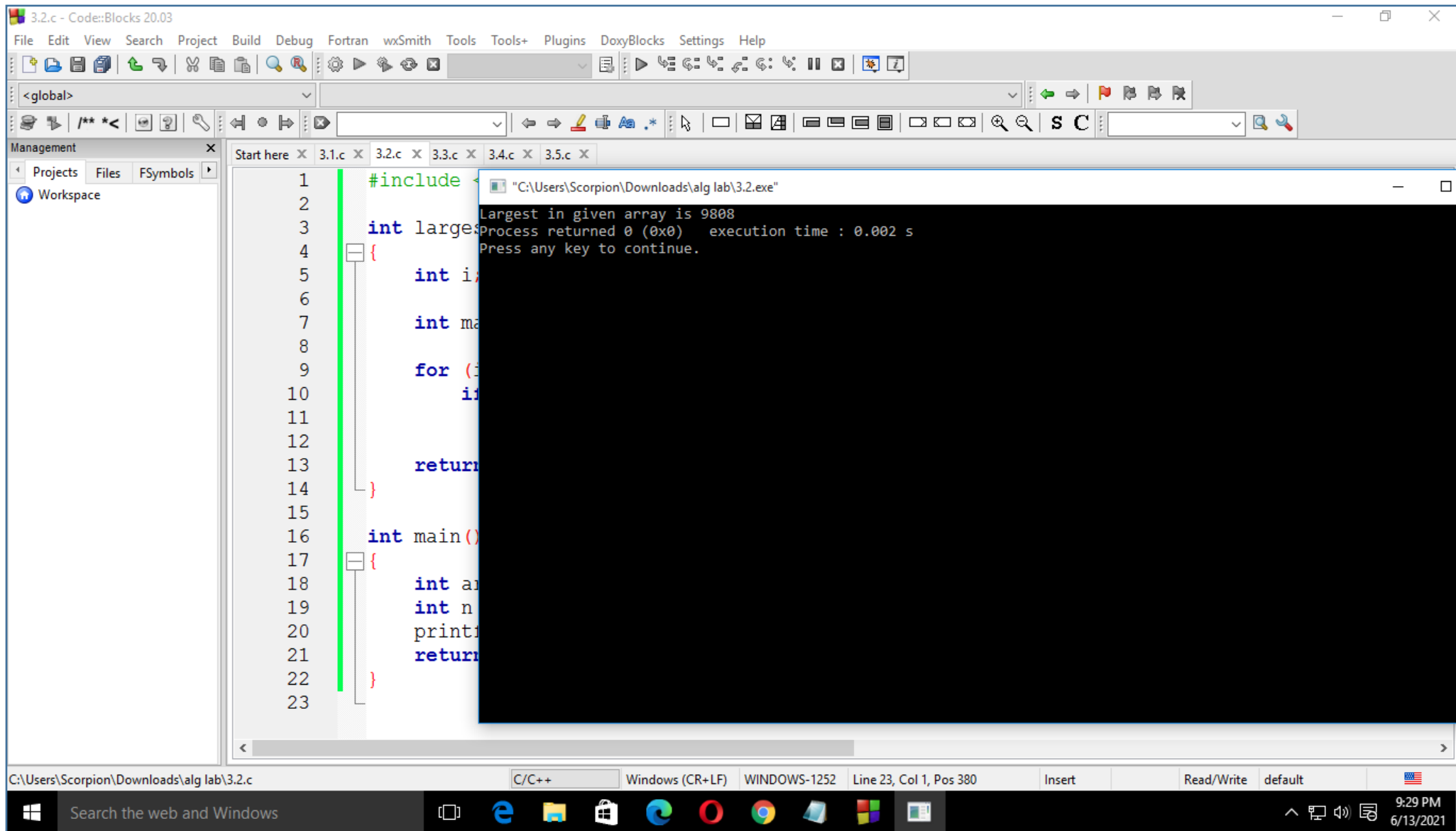
02 no ans :



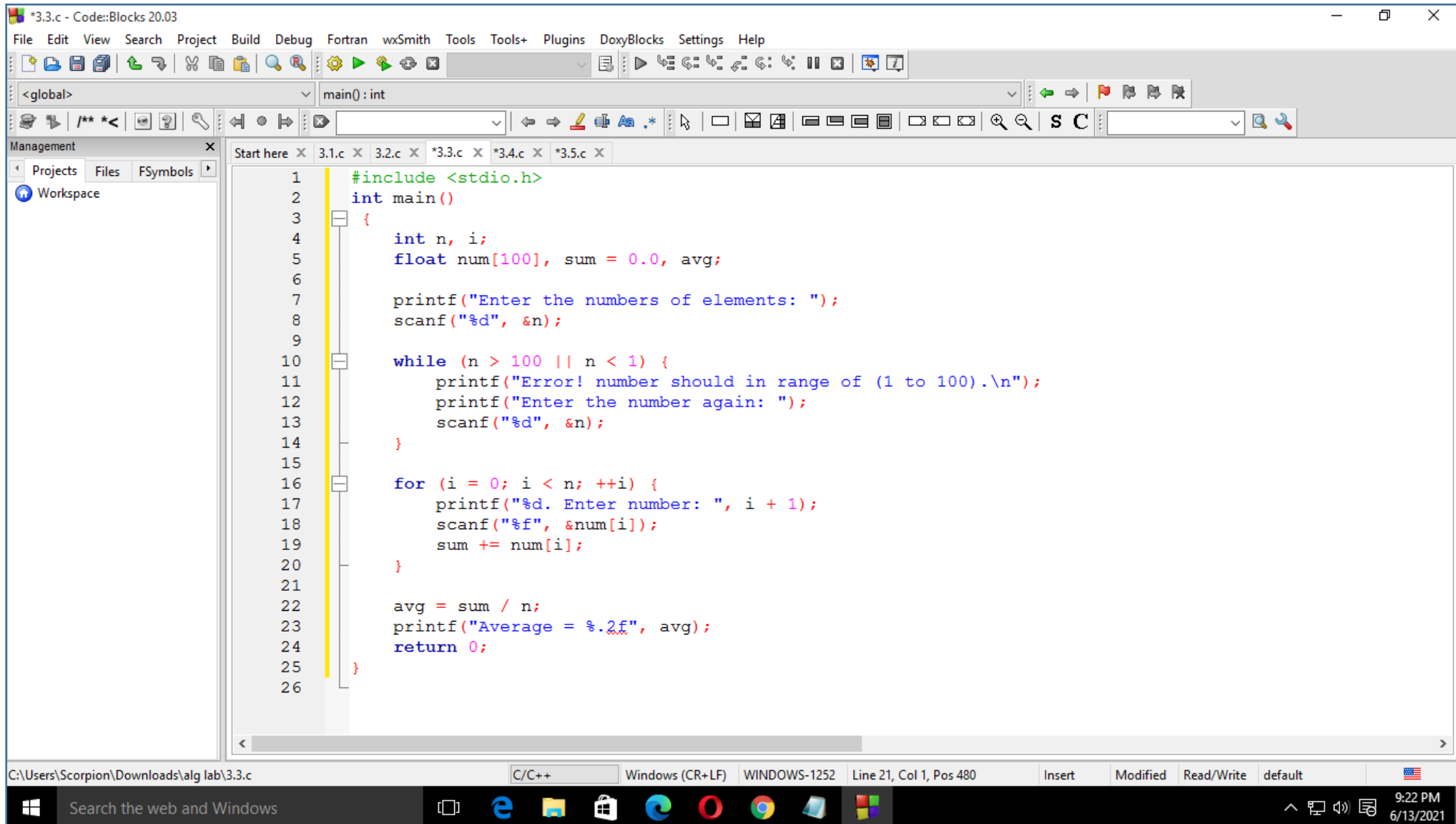
The screenshot shows the Code::Blocks 20.03 IDE with a C program open in the editor. The program is designed to find the largest element in a given array. The code is as follows:

```
1  #include <stdio.h>
2
3  int largest(int arr[], int n)
4  {
5      int i;
6
7      int max = arr[0];
8
9      for (i = 1; i < n; i++)
10         if (arr[i] > max)
11             max = arr[i];
12
13     return max;
14 }
15
16 int main()
17 {
18     int arr[] = {10, 324, 45, 90, 9808};
19     int n = sizeof(arr)/sizeof(arr[0]);
20     printf("Largest in given array is %d", largest(arr, n));
21     return 0;
22 }
23
```

The IDE interface includes a menu bar (File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, Help), a toolbar with various icons, and a sidebar with a 'Management' pane showing 'Projects', 'Files', and 'FSymbols'. The status bar at the bottom indicates the file path 'C:\Users\Scorpion\Downloads\alg lab\3.2.c', the language 'C/C++', and the current cursor position 'Line 23, Col 1, Pos 380'.



03 no ans :



The screenshot shows the Code::Blocks IDE with a C program open. The program calculates the average of a series of numbers entered by the user. It includes a header file, declares variables for the number of elements, an array, sum, and average, and uses loops and conditional statements to process the input.

```
#include <stdio.h>
int main()
{
    int n, i;
    float num[100], sum = 0.0, avg;

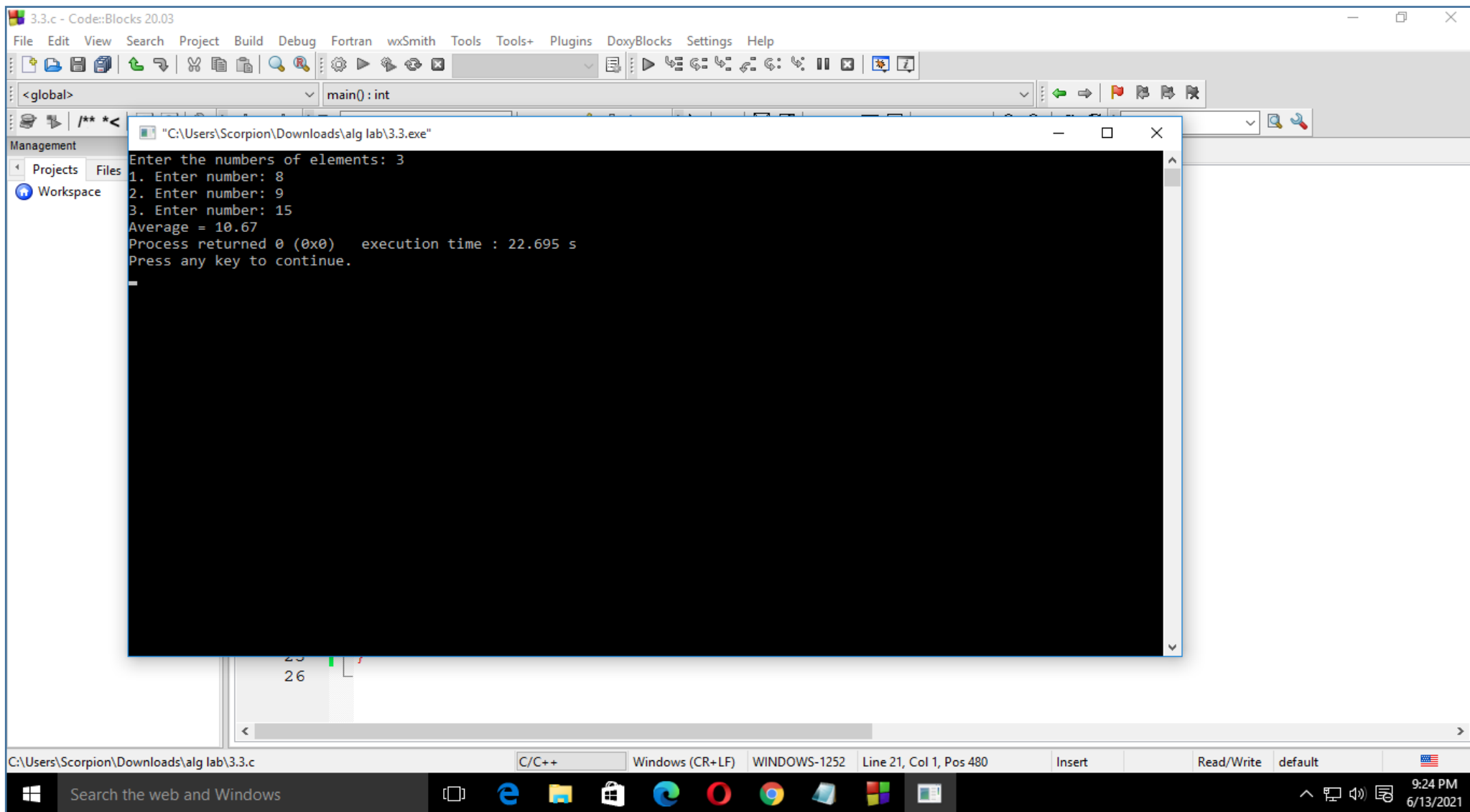
    printf("Enter the numbers of elements: ");
    scanf("%d", &n);

    while (n > 100 || n < 1) {
        printf("Error! number should in range of (1 to 100).\n");
        printf("Enter the number again: ");
        scanf("%d", &n);
    }

    for (i = 0; i < n; ++i) {
        printf("%d. Enter number: ", i + 1);
        scanf("%f", &num[i]);
        sum += num[i];
    }

    avg = sum / n;
    printf("Average = %.2f", avg);
    return 0;
}
```

The IDE interface includes a menu bar (File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, Help), a toolbar, and a sidebar with a 'Management' panel showing 'Projects', 'Files', and 'FSymbols'. The main editor window displays the code with line numbers from 1 to 26. The status bar at the bottom shows the file path 'C:\Users\Scorpion\Downloads\alg lab\3.3.c', the language 'C/C++', and the current cursor position 'Line 21, Col 1, Pos 480'.

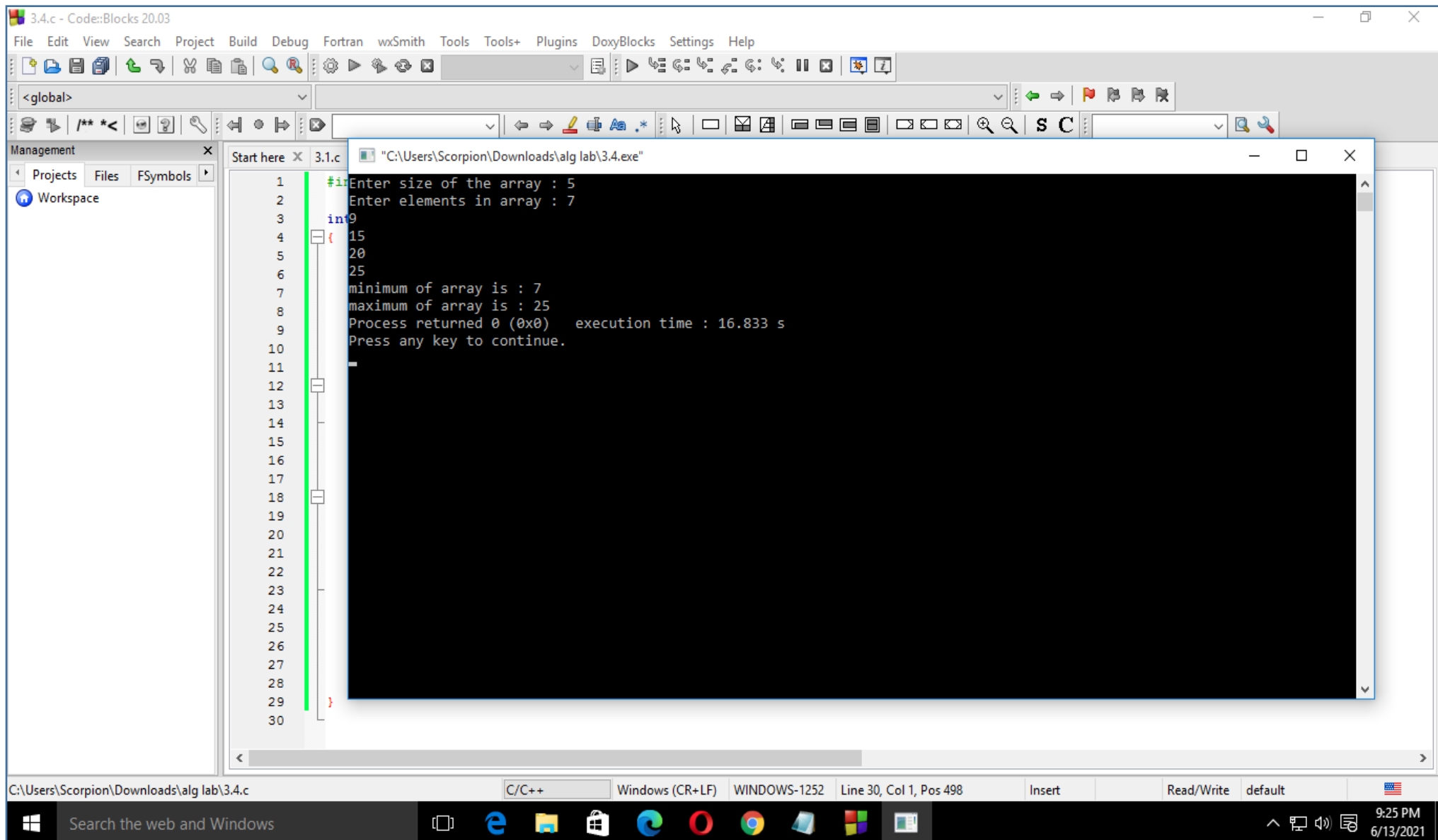


04 no ans :

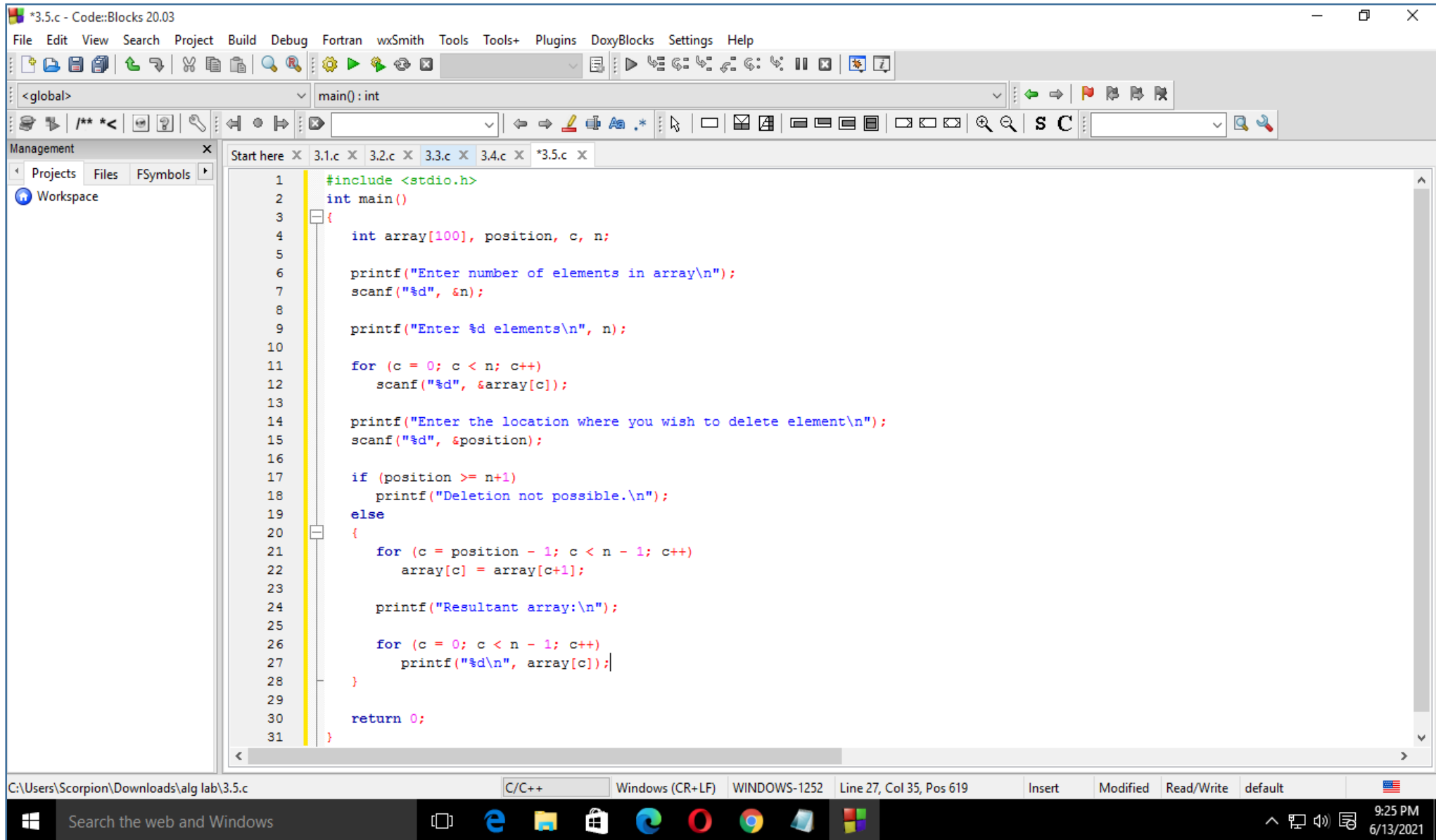
The screenshot shows the Code::Blocks IDE with a C program open. The program is designed to find the minimum and maximum values in an array of 1000 integers. It uses `scanf` to take input for the array size and elements, and `printf` to output the results. The code is as follows:

```
1  #include <conio.h>
2
3  int main()
4  {
5      int a[1000], i, n, min, max;
6
7      printf("Enter size of the array : ");
8      scanf("%d", &n);
9
10     printf("Enter elements in array : ");
11     for(i=0; i<n; i++)
12     {
13         scanf("%d", &a[i]);
14     }
15
16     min=max=a[0];
17     for(i=1; i<n; i++)
18     {
19         if(min>a[i])
20             min=a[i];
21         if(max<a[i])
22             max=a[i];
23     }
24     printf("minimum of array is : %d", min);
25     printf("\nmaximum of array is : %d", max);
26
27
28     return 0;
29 }
30
```

The IDE interface includes a menu bar (File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, Help), a toolbar, and a project manager on the left. The status bar at the bottom indicates the current file path, compiler (C/C++), and window state (Windows (CR+LF)).



05 no ans :



The screenshot shows the Code::Blocks 20.03 IDE with a C program open. The program is titled "3.5.c" and is located at "C:\Users\Scorpion\Downloads\alg lab\3.5.c". The code is as follows:

```
1  #include <stdio.h>
2  int main()
3  {
4      int array[100], position, c, n;
5
6      printf("Enter number of elements in array\n");
7      scanf("%d", &n);
8
9      printf("Enter %d elements\n", n);
10
11     for (c = 0; c < n; c++)
12         scanf("%d", &array[c]);
13
14     printf("Enter the location where you wish to delete element\n");
15     scanf("%d", &position);
16
17     if (position >= n+1)
18         printf("Deletion not possible.\n");
19     else
20     {
21         for (c = position - 1; c < n - 1; c++)
22             array[c] = array[c+1];
23
24         printf("Resultant array:\n");
25
26         for (c = 0; c < n - 1; c++)
27             printf("%d\n", array[c]);
28     }
29
30     return 0;
31 }
```

The IDE interface includes a menu bar (File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, Help), a toolbar, and a sidebar with "Management" (Projects, Files, FSymbols) and "Workspace". The status bar at the bottom shows the file path, language (C/C++), encoding (Windows (CR+LF)), font size (WINDOWS-1252), cursor position (Line 27, Col 35, Pos 619), and various window and system icons.

