Seatwork 4.1	
Arrays	
Course Code: CPE007	**Program:** Computer Engineering
Course Title: Programming Logic and Design	**Date Performed: September 9, 2025**
Section: CPE11S1	**Date Submitted: September 9, 2025**
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6. Output

Screenshot of the Code:

```
#include <iostream>
using namespace std;
int main(){
    //array declaration
    int scores [10] = {90,85,78,88,92,80,75,80,89,91};
    //print the 5th element of the array
    cout<<scores[4]<<endl;
    //change the value of first element to 95
    scores[0]=95;
    cout<<"new value of the scores[0]: "<<scores[0]<<endl;
    //printing the whole array;
    for (int i=0; i< 10; i++){
        cout<<scores[i]<<" ";
    }
    //swapping variables:
    int var1 = 10;
    int var2 = 20;

    int temp = var1;
    var1 = var2;
    var2 = temp;

    //swapping elements on an array:
    temp = scores[0];
    scores[0] = scores[9];
    scores[9] = temp;

    cout<<endl;
    for (int i=0; i < 10; i++){
        cout<<scores[i]<<" ";
    }

    //bubble sort
    int n = 10;
    for (int i=0; i < n - 1; i++){
        for (int j = 0; j < n - 1; j++){
            if (scores[j] > scores[j+1]){
                //swap scores[j] and scores [j+1]
                temp = scores[j];
                scores[j] = scores[j+1];
                scores[j+1] = temp;
            }
        }
    }
    //print sorted array
```

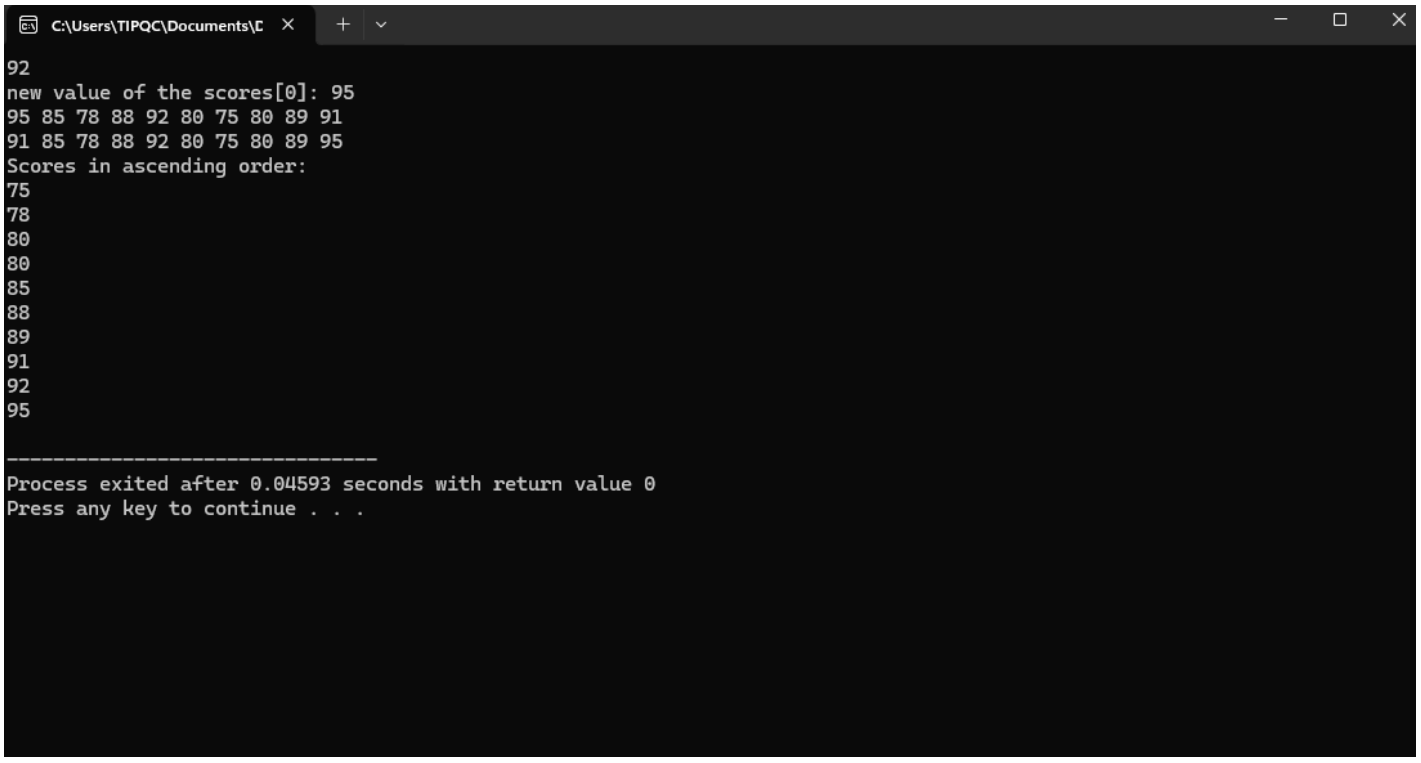
```
C:\Users\TIPQC\Documents\C
92
new value of the scores[0]: 95
95 85 78 88 92 80 75 80 89 91
91 85 78 88 92 80 75 80 89 95
Scores in ascending order:
75
78
80
80
85
88
89
91
92
95

--------------------------------
Process exited after 0.01235 seconds with return value 0
Press any key to continue . . .
```

Compile Log | Debug | Find Results | Close

```
    //print sorted array
    cout <<"\nScores in ascending order: \n";
    for (int i = 0; i < n; i++){
        cout << scores[i] << " ";
        cout<< endl;
    }
    return 0;
}
```

Output:



7. Supplementary Activity

8. Conclusion

What I learned today is about arrays. Arrays are important when you have to store multiple values in one variable. You will not need to declare multiple variables anymore if you want to input as many values as you want. It will be a hassle for you to code deeper if you don't know arrays enough right now. Arrays are critical for deep coding works as it will be a storage of multiple values. It will make your desired projects more possible and quicker. That's why there are many programmed products right now that made possible by an arrays.