

Arrays

Activity #1 Arrays/Seatwork

Course Code: CPE007

Program: Computer Engineering

Course Title: Programming Logic and Design

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6. Output

```
#include <iostream>

int main () {

    /*
    float score;
    int counter;
    float sum;

    //std::cout<< "Hi Ralph!"<<endl;
    while (counter != 10) {
        std::cout << "Score of Student: ";
        std::cin >> score;
        sum = sum + score;
        counter = counter + 1;
    }

    std::cout<< sum/10 <<std::endl;
    */

    //array declaration
    int scores [10] = {90,85,78,88,92,80,75,80,89,91};
    std::cout<< "The 5th element of the array: " << scores [4] <<std::endl;

    scores[2] = 96;
    std::cout<< "The New Value: " << scores [2] <<std::endl;

    /* Pseudocode
    start
    INITIALIZE scores [10]
    LOOP
        OUTPUT scores [i]
        INCREMENT i
    END LOOP
    end
    */

    //CODE

    for (int i = 0; i < 10; i++)
        std::cout << scores[i]<<" ";
```

PART 2

```
for (int i = 0; i < 10; i++)
    std::cout << scores[i]<<" ";

int var1 = 10;
int var2 = 20;
int temp = var1; // to hold a value
var1 = var2; // swap value of var1 to var2
var2 = temp; // assign the value stored in the temp/

//int scores[10] = {90,85,78,88,92,80,75,80,89,91};
//int temp;
scores [0];
scores [9];
temp = scores [0];
scores [0] = scores [9];
scores [9] = temp;

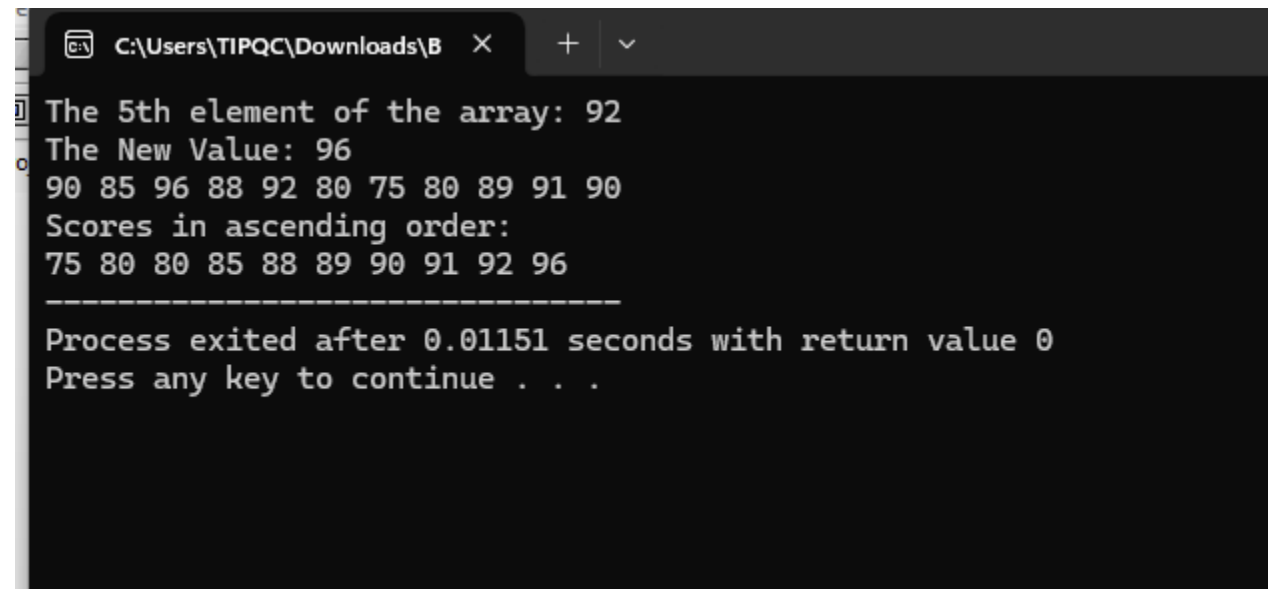
std::cout <<scores [9];

//int temp;
int n = 10;
//int scores[10] = {90,85,78,88,92,80,75,80,89,91};
for (int i = 0; i < n -1; i++ ) {
    for( int j = 0; j < n - i -1; j++) {
        if (scores [j] > scores [j+1]) {
            //swap scores [j] and scores [i]
            temp = scores[j];
            scores[j] = scores [j+1];
            scores [j+1] = temp;
        }
    }
}

std::cout <<" \n" << "Scores in ascending order: " <<std::endl;
for (int i = 0; i < 10; i++)
    std::cout <<scores[i]<<" ";

return 0;
}
```

OUTPUT:



The screenshot shows a Windows command prompt window with a dark background. The title bar at the top indicates the file path 'C:\Users\TIPQC\Downloads\B'. The output of the program is as follows:

```
The 5th element of the array: 92
The New Value: 96
90 85 96 88 92 80 75 80 89 91 90
Scores in ascending order:
75 80 80 85 88 89 90 91 92 96
-----
Process exited after 0.01151 seconds with return value 0
Press any key to continue . . .
```

7. Supplementary Activity

8. Conclusion

This lesson was quite confusing especially the bubble sort but I managed to learn new things and to be able to improve in the future as I code even more using arrays and other functions

It took me a while to output the code because it was conflicting with other things because I was also taking note of the assessments that I was trying to practice. At the end it manage to work.