Seatwork 4.1	
Arrays	
Course Code: CPE007	**Program:** Computer Engineering
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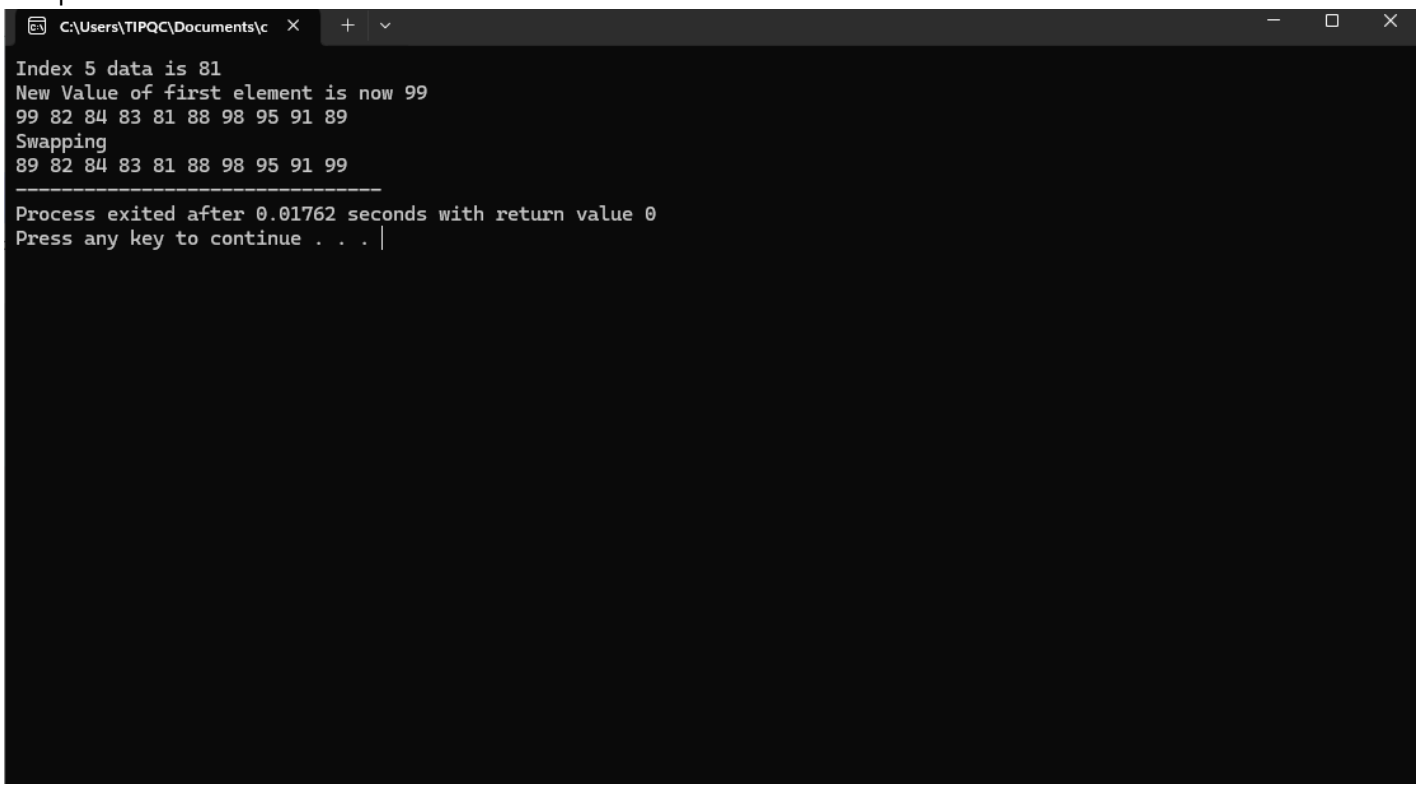
6. Output

1.Screenshot of the code

```cpp
#include <iostream>

int main(){
    //declaration
    int grades[10] = {80,82,84,83,81,88,98,95,91,89};

    //print element
    std::cout << "Index 5 data is "<< grades[4] << std::endl;

    //Change value
    grades[0] = 99;

    std::cout << "New Value of first element is now " << grades[0] << std::endl;
    //printing whole array
    for (int i = 0; i < 10;i++){
        std::cout << grades[i] << " ";
    }

    std::cout << std::endl << "Swapping" << std::endl;
    //Swapping variables
    int var1 = 10;
    int var2 = 20;

    int tempVar = var1;
    var1 = var2;
    var2 = tempVar;

    //swapping vars in an array
    int temp = grades[0];
    grades[0] = grades[9];
    grades[9] = temp;

    for (int i = 0; i < 10;i++){
        std::cout << grades[i] << " ";
    }


    return 0;
}
```

2.output



7. Supplementary Activity

8. Conclusion

What I learned today is what arrays are and how they work. I learned what they are made of which consists of an element type, array name, and array size. I also learn more about how “for” loops work and how useful they can be with arrays because it loops in each data of the array. I also learned how you can swap variables inside and outside an array by using a temporary variable. Lastly,I also learned how to sort data inside an array using bubble sort which is comparing each data one by one and sorting them accordingly.

9. Assessment Rubric