Seatwork No. 4.1	
Arrays	
Course Code: CPE007	**Program:** Computer Engineering
Course Title: Programming Logic and Design	**Date Performed: 9/9**
Section: CPE11S1	**Date Submitted: 9/9**
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6. Output	

```cpp
#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 << "5th element of the array: " << 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
    cout << "Given array: ";
    for (int i = 0; i < 10; i++){
        cout << scores [i] << " ";
    }

    //swapping variables
    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

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

    cout << endl;
    cout << "Swapped scores[0] and scores[9]: ";
    for (int i = 0; i < 10; i++){
        cout << scores [i] << " ";
    }
    return 0;
}
```

```
5th element of the array: 92
new value of the scores[0]: 95
Given array: 95 85 78 88 92 80 75 80 89 91
Swapped scores[0] and scores[9]: 91 85 78 88 92 80 75 80 89 95
--------------------------------
Process exited after 0.01232 seconds with return value 0
Press any key to continue . . .
```

7. Supplementary Activity

8. Conclusion

Concluding this activity and discussion, I learned how arrays work and how other commands interact with it. Through element manipulation through for and incrementing and other iterating methods I've learned earlier, I gained understanding in arranging the elements or data given by the arrays. The discussion about arrays also taught me how to declare values in a far more efficient way, even if it may appear more complex than the previous methods learned in the preliminary period of this course. Overall, this lesson gave me a more in-depth understanding of this programming language.

9. Assessment Rubric

Raw 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 << "5th element of the array: " << 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
   cout << "Given array: ";
   for (int i = 0; i < 10; i++){
      cout << scores [i] << " ";
   }

   //swapping variables
   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

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

```
    scores[9] = temp;


    cout << endl;
    cout << "Swapped scores[0] and scores[9]: ";
    for (int i = 0; i < 10; i++){
        cout << scores [i] << " ";
    }
    return 0;
}
```