

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

```
1 #include <iostream>
2 using namespace std;
3 int main(){
4     // array declaration
5     int scores [10] = {90,85,78,88,92,80,75,80,89,91};
6
7     // print the 5th element of the array
8     cout << "5th element of the array: " << scores [4] << endl;
9
10    // change the value of first element to 95
11    scores [0] = 95;
12    cout << "new value of the scores[0]: " << scores [0] << endl;
13
14    //printing the whole array
15    cout << "Given array: ";
16    for (int i = 0; i < 10; i++){
17        cout << scores [i] << " ";
18    }
19
20    //swapping variables
21    int var1 = 10;
22    int var2 = 20;
23
24    int temp = var1; // to hold a value
25    var1 = var2; // swap value of var1 to var2
26    var2 = temp; // assign the value stored in the temp
27
28    // swapping elements on an array
29    temp = scores[0];
30    scores[0] = scores[9];
31    scores[9] = temp;
32
33    cout << endl;
34    cout << "Swapped scores[0] and scores[9]: ";
35    for (int i = 0; i < 10; i++){
36        cout << scores [i] << " ";
37    }
38    return 0;
39 }
```

```
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;
}
```