

### Activity No. 4.1

#### Seatwork 4.1: Arrays

**Course Code:** CPE 007      **Program:** Computer Engineer

**Course Title:** Programming Logic and Design      **Date Performed:** 9/92025

**Section:** CPE11S1      **Date Submitted:** 9/92025

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#### 6. Output

##### CODE :

```
1 #include <iostream>
2 using namespace std;
3
4 int main (){
5
6     int scores [10] = {90, 90, 90, 90, 90, 90, 90, 90, 90, 90};
7
8     cout << "Student 1 Grade: \n" << scores [1];
9
10
11    return 0;
12
13 }
14
```

##### OUTPUT :

```
Student 1 Grade:
90
-----
Process exited after 0.01875 seconds with return value 0
Press any key to continue . . . |
```

**CODE :**

```
1 #include <iostream>
2 using namespace std;
3
4 int main (){
5
6     int scores [10] = {90, 90, 90, 90, 90, 90, 90, 90, 90, 90};
7
8     cout << "Student 1 Grade: " << scores [1] << " \n";
9
10    cout << "Student 2 Grade: " << scores [2] << " \n";
11
12    cout << "Student 3 Grade: " << scores [3] << " \n";
13
14    cout << "Student 4 Grade: " << scores [4] << " \n";
15
16    cout << "Student 5 Grade: " << scores [5] << " \n";
17
18    cout << "Student 6 Grade: " << scores [6] << " \n";
19
20    cout << "Student 7 Grade: " << scores [7] << " \n";
21
22    cout << "Student 8 Grade: " << scores [8] << " \n";
23
24    cout << "Student 9 Grade: " << scores [9] << " \n";
25
26    cout << "Student 10 Grade: " << scores [10] << " \n";
27
28
29    return 0;
30
31 }
```

**OUTPUT :**

```
Student 1 Grade: 90
Student 2 Grade: 90
Student 3 Grade: 90
Student 4 Grade: 90
Student 5 Grade: 90
Student 6 Grade: 90
Student 7 Grade: 90
Student 8 Grade: 90
Student 9 Grade: 90
Student 10 Grade: 49

-----
Process exited after 0.01392 seconds with return value 0
Press any key to continue . . . |
```

**CODE :**

```
using namespace std;

int main (){
    int scores [10] = {90, 90, 90, 90, 90, 90, 90, 90, 90, 90};
    for(int i = 0; i < 10; i++){
        cout<< scores[i]<<" ";
    }
    return 0;
}
```

**OUTPUT :**

```
90 90 90 90 90 90 90 90 90 90
```

---

```
Process exited after 0.01261 seconds with return value 0
Press any key to continue . . . |
```

**CODE :**

```
#include <iostream>
using namespace std;

int main (){
    int scores [10] = {91, 70, 99, 90, 90, 90, 90, 90, 90, 90};
    int temp = scores[1];

    scores[1] = scores[2];
    scores[2] = temp;

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

    return 0;
}
```

**OUTPUT :**

```
91 99 70 90 90 90 90 90 90 90
-----
Process exited after 0.0135 seconds with return value 0
Press any key to continue . . . |
```

**CODE :**

```
#include <iostream>
using namespace std;

int main (){
    int scores [10] = {80, 78, 87, 94, 90, 89, 90, 93, 91, 84};
    int temp = scores[0];
    int n = 10;

    scores[0] = scores[9];
    scores[9] = temp;

    for (int i = 0; i < n - 1; i++) {
        for (int j = 0; j < n - i - 1; j++) {
            if (scores[j] > scores [j+1]){
                temp = scores[j];
                scores[j] = scores[j + 1];
                scores[j +1] = temp;
            }
        }
    }

    cout << "scores in ascending order: ";
    for (int i = 0; i < n; i++) {
        cout << scores[i] << " ";
    }

    cout << endl;

    return 0;
}
```

**OUTPUT :**

```
scores in ascending order: 78 80 84 87 89 90 90 91 93 94
```

```
-----
Process exited after 0.01275 seconds with return value 0
Press any key to continue . . . |
```

**7. Supplementary Activity**

**8. Conclusion**

I have learned pseudo code again, learned new things like arrays, switch variables, swapping variables, and bubble sort. I learned how to use it and properly execute it. It's still hard for me because this is a new code, but I'm exploring it more so I can learn and adapt to it.

**9. Assessment Rubric**