

Using a WHILE Statement with an Array

Using the WHILE Statement

If we want to print out all of the elements in an array, another way of doing it is to create a WHILE statement to count from zero (0) to seven (7), and print out that element of an array:

Print Elements using a WHILE Statement

```
# PROGRAM PrintArray
X = 0
while (X < 8):
    print (StudentsAges [X])
    X = X + 1
# EndWhile;
# END.
```

And we will get the following:

```
9
10
9
8
10
10
9
11
```

Updating Elements in an Array

If we wanted to add one (increment) to each element of any array, all we have to do is this:

Incrementing Elements using a WHILE Statement

```
# PROGRAM IncrementArray
X = 0
while (X < 8):
    StudentsAges[X] = StudentsAges[X] + 1
    X = X + 1
# EndWhile;
# END.
```

This will add one (1) onto each element of the array, and we will get the following:

```
[10, 11, 10, 9, 11, 11, 10, 12]
```

If we change the line after the WHILE statement to say the following:

```
StudentsAges [X] = 0
```

This will set all elements of the array to zero, and we will get the following:

```
[0, 0, 0, 0, 0, 0, 0, 0]
```