

## Arrays Lecture Example #2

**Introduction:** This example is designed to provide an example of two-dimensional arrays

**Concepts Covered:** Declaring a two-dimensional array, using two-dimensional arrays with functions, storing data into a two-dimensional array, writing out data from a two-dimensional array, and using a typedef statement with the arrays

**Example Description:** Create a program that has two functions. The first function is to initialize a two-dimensional array of integers with values that are  $(\text{row\_index} + \text{col\_index}) * 2$ . The second function will print out the array. The initial max size of the array is 3X3. After writing the program, and verifying that it works for the small size, change the max size to 20x20. Writing the program using constants and a typedef statement will help with this change.