

## Exercise Summary

In this exercise, you will use an array structure to store a list of images for dice faces. Your wee program will let the user select how many dice s/he wants to roll, and then it will randomly generate that number of dice from your array.

## Exercise Files

- Please download and extract **Dice.zip** from the Week 2, Day 2 folder in BlackBoard to the htdocs folder on your machine.
- Run the index page in your browser using localhost.
- Open **index.php** in a text editor and view its syntax.

## Exercise Instructions

1. Add code to **dice.php** that captures the textbox value from index.php. Echo it out to the document to test the result. Once you have confirmed that you are capturing the textbox value correctly, delete the test echo statement.
2. Make an array, called **\$dice**, that stores the path to each picture from the **icons folder**. HINT: your code is in dice.php, which is in the serverCode folder. To navigate from this starting point, to the icons folder, you need to move up one directory as follows: **“../icons”**. So, the first picture’s path would be **“../icons/One.png”**
3. Test your array by outputting one of its elements via hardcoding an index value in your **\$dice** array as follows:  
***echo \$dice[3];***

If you have successfully coded your array, this is the value that should be returned from your test call:

***../icons/Four.png***

Once you have tested this step correctly, remove your test echo statement with the hardcoded array item.

4. Now for the fun part! First start by researching the PHP method that randomly generates numbers. The method is called **rand()**. Here is the link to its help file: <http://php.net/manual/en/function.rand.php>.
5. Code logic that will iterate to match the number of dice that the user selected. So, if the user wants to roll 3 dice, you loop will iterate 3 times. Each time that your loop executes, you will randomly generate a number between the lower and upper range element count of your array. You will use this number to select an item from your array, which ends up being a path to an image. Use this value to output an image tag, where its **src attribute** is a path to the picture from the array item that you selected. Shown below are some test results of the final product working successfully:

