Java Classes-02

In this assignment you will create a program that will display a random question from a list of questions and allow the user to answer it. The program will display if the user is correct or not.

1. Create a new project in NetBeans called MAP103Lab2 as well as a new remote repository on GitHub. Connect your project to your GitHub repository and perform an initial commit/push.

2. Write the following code into the MAP103Lab2.java file created by NetBeans. This code will not run, it is only to get you started, please continue to number 2 after you have written the code.

```
import java.util.Scanner;

public class MAP103Lab2 {
	public static void main( String args[] ) {
		// Create a Scanner to obtain information from the user
		Scanner input = new Scanner( System.in );

		// Pulls a random number between 0 and 4
		int questionNumber = (int)(Math.random() * 5);

		RandomQuizHelper helper = new RandomQuizHelper();

		// Uses a method in class RandomQuizHelper that takes
		// a question number and returns the question.
		String question = helper.getQuestion(questionNumber);

		// A variable to store the users answer
		String answer = "";

		System.out.print( question );
		answer = input.nextLine();

		if ( helper.getResult(questionNumber, answer) == true ) {
			System.out.print( "You are correct!" );
		} else {
			System.out.print( "You are not correct." );
		}

		input.close();
	}
}
```

3. Create a second class called RandomQuizHelper with the following requirements:
   a) Create two instance/class variables that are String arrays, one will hold 5 questions and one will hold 5 answers (hint: make sure your answers have the same array key as the question that pertains to them).
   b) Create a constructor that will initialize the String arrays and set the values.
   c) Create a getQuestion method that will accept an integer and return the question that corresponds to that integer.
   d) Create a getResult method that will accept an integer and answer, then it will check the answer in the answer array (hint: use the String method equals()) and return true if it is correct, or false if it is not.