Michael Brower & Vitor Cavalcante

Programming Assignment 5: Recursion

```
public class RecursionDemo {

 public static int x = 0;

 static void p(){
 System.out.println("The next number is: " + x);
 x=x+1;
 p();
 }
public static void main(String[] args) {
 p();
 }
 }
```

Programming Assignment 5a: Recursion - Receiving an outside value

```
public class RecursionDemo2 {

        public static int x = 0;

        static void p(int y){
                 System.out.println("The next number is: " + x);
                x=x+y;
                p(y);
                }

        public static void main(String[] args) {
                        p(5);
                 }
 }
```

Programming Challenge 5:

```
import java.util.Scanner;
```

```
public class CounterBy10s
{



	public static void counter10(int max, int n)
	{

		if (n > max)
			return;
		else
		{
		System.out.println("The next number is: " + n);
		counter10(max, n+10);
		}

	}

	public static void main(String[] args)
	{

		Scanner sc = new Scanner(System.in);

		System.out.println("Please enter the max amount you want your number to go up
to: ");
		int userM= sc.nextInt();

		System.out.println("Please enter the number you want to start counting 10s
from:");
		int userN = sc.nextInt();

		counter10(userM, userN);

	}

}
```