# Java Programming

#### Assignment 07

Create a project called Assignment07. Create a Java class, also called Assignment067 and copy this code into your IDE:

### Assignment07.java

```
public class Assignment07
{
   public static void main(String args[]){
        System.out.println("Greetings: this program is written by Matt Weisfeld");
        String reverseStr;

        // create object instance
        MyStringClass myStrObject = new MyStringClass();

        // get string from console
        String str = myStrObject.getString();
        System.out.println("You entered this string: " + str);

        // reverse string
        reverseStr = myStrObject.reverseString(str);

        // print out reversed string
        System.out.println("The string reversed is: " + reverseStr);
    }
}
```

First, change the greetings to indicate that you wrote the program - not me ©.

Next, create a class called *MyStringClass.java* that will provide methods to process strings. This assignment focuses on code to reverse a string. The first part of the assignment implements code using the library class called StringBuilder - which I provide. Please study this and get it running.

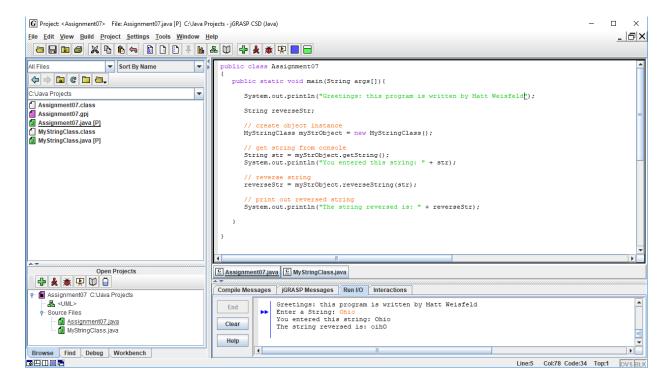
```
Class StringBuilder

https://docs.oracle.com/javase/7/docs/api/java/lang/StringBuilder.html
```

# MyStringClass.java

```
import java.util.Scanner;
public class MyStringClass
{
 public String reverseString (String myStr){
   StringBuilder str = new StringBuilder(myStr);
   StringBuilder strReverse;
   // reverse characters of the StringBuilder and print it
   strReverse = str.reverse();
   return strReverse.toString();
 }
 public String getString() {
   // Get console String input
   System.out.print("Enter a String: ");
   Scanner in = new Scanner(System.in);
   String str = in.nextLine();
   return (str);
 }
```

In jGrasp (the IDE that I am using) the screen will look like this after a successful compile and execution.



This is a working application – when I enter "Ohio" the return argument is "oihO".

Note that the implementation here uses the StringBuilder library class.

All that you need to do (and I don't say that in a trivial manner) is to replace the implementation with the StringBuilder library class and write your own code from scratch to accomplish the same thing.

In short, you need to keep the same interface:

```
public String reverseString (String myStr){
}
```

And then write the code to reverse the string without using the StringBuilder library class. In essence, you are writing the StringBuilder library class.

### What to Turn In

All you need to turn in is the completed MyStringClass class – in a file called MyStringClass.java - with your original code implementing the string reversal.

So please upload the file MyStringClass.java to Blackboard. I don't need the entire project. I will simply add the file you submit to my project and test it.