

Programming Assignment

What you need to do:

- Task 1: Write a program (called Prog3) that asks the user to input a String. The output is the characters of this String in reverse order. For example, if the input string is "Hello", the output string would be "olleH". Do not use arrays and do not create a new String object. You may not use Java library functions that perform the reverse operation for you, such as the reverse functions found in *StringBuilder* and *StringBuffer*.
- Task 2: Recursive Utility Functions: Attempt to reverse the order of the characters in an input String by using the following strategy:
 - 1) Remove the 0th character ch from the input string and name the modified string t.
 - 2) Reverse t and append ch.

```
private static String reverse(String s) {  
  
    // implement  
    return null;  
}
```