## Review Assignment 06 <u>Submission Deadline 11:59 PM, Sunday, February 26<sup>th</sup></u> Total 50 points

## Instruction.

- 1. Download the assignment sheet.
- 2. Enter your answer.
- 3. Upload your answer sheet.

## Question 1. String reversal (20 points).

Let wordInput be a String variable. Suppose you want to construct from wordInput a StringBuilder variable myBuilder whose content is the reverse of wordInput. Fill in the blanks.

```
int k; // use this as the iteration variable
StringBuilder myBuilder = new StringBuilder(); // instantiation;
2 pt
for (k=wordInput.length()-1; k>=0; k--) { // for-loop; 4 pts
   myBuilder.append(wordInput.charAt(k)); // updating builder; 4
pts
}
System.out.println( myBuilder.toString() ):
```

You can produce the same result by using another method, insert (). Fill in the blanks.

```
int k; // use this as the iteration variable
StringBuilder myBuilder = new StringBuilder(); // instantiation;
2 pts
for (k=0; k<wordInput.length(); k++) { // for-loop; 4 pts
   myBuilder.insert(0, wordInput.charAt(k)); // updating builder;
4 pts
}
System.out.println( myBuilder.toString() );</pre>
```

## Question 2. Outlined Box (20 points altogether).

Suppose we are to produce, on the screen, a rectangle, whose side, top, and bottom lines are presented using '+' and whose interior is all black. The user shall enter the height and the width. For example, when the height is 5 and the width is 8, the shape produced on the screen is:

```
+++++++
+ +
+ +
+ +
```

Suppose we are to use a double loop to produce the shape. Fill in the blanks. A key idea is to use a condition to determine if the symbol to print is "+".