The first Quiz of the course will be on Wednesday Feb 2 during your lab (discussion) session. The following bullet list provides more information about the quiz:

- You will have 15 minutes to complete the quiz.
- It will be a written quiz (not using any computer).
- It will be a closed book, closed notebook, no calculator quiz.
- You should be able to write a complete Java class.
- You must use a pencil to complete the quiz.
- The quiz will be based on the exercises you will find below. Iteration statements (do while/whiles) will not be part of the quiz.

The following exercises cover the material you are expected to be familiar for Quiz #1. Solutions to these exercises will not be provided but you are welcome to discuss your solutions with TAs and instructors during office hours.

1. From Lewis & Loftus
   a. Page 56 (“programming projects section”): 1.1, 1.3
   b. Page 120 (“exercises”): 2.2, 2.6 (a, b, c, d, e, f, g, n, o, p, q)
   c. Page 123 (“programming projects”): 2.2, 2.3, 2.5, 2.11

2. Write a Java program that computes the letter grade associated with student based on a numeric grade value. The program will read the numeric grade of the student and will compute a letter grade using the following cutoff values:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Cutoff</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90.0</td>
</tr>
<tr>
<td>B</td>
<td>80.0</td>
</tr>
<tr>
<td>C</td>
<td>70.0</td>
</tr>
<tr>
<td>D</td>
<td>60.0</td>
</tr>
</tbody>
</table>

   Any student with a numeric grade value lower than 60.0 will have F as letter grade.

3. Note: This problem was last semester’s quiz. The solution has been provided at the end.

   Write a Java program that prompts the user for two values, computes the average of the values and generates a message based on the computed average. The message “Satisfactory” will be output if the average is greater or equal to 70.0 and “Unsatisfactory” otherwise. The following restrictions/assumptions apply to this problem:
- The name of the class you will define is **ComputeStatus**.
- The input values are floating point values. You may use any of the Java floating point types.
- Input and output operations must be completed using methods associated with JOptionPane.
- You do not need to provide comments, however, you must use meaningful variable names and good indentation.
- You must write any necessary import statements.
- Write the program on the next page.

**Problem 3 Solution**

```java
import javax.swing.*;
public class ComputeStatus {

    public static void main(String[] args) {
        String strVal1 = JOptionPane.showInputDialog("Enter Value");
        String strVal2 = JOptionPane.showInputDialog("Enter Value");
        double val1 = Double.parseDouble(strVal1);
        double val2 = Double.parseDouble(strVal2);
        double avg = (val1 + val2)/2;

        String message = "Satisfactory";
        if (avg < 70.0) {
            message = "Unsatisfactory";
        }

        JOptionPane.showMessageDialog(null, message);
        System.exit(0);
    }
}
```