Lesson Plan for Lab12  
CS 1401, Thursdays 7:30 a.m.

I. Handling Exceptions and Events (total 27 minutes)
   a) 3 minutes-- I will put the students on groups of two persons and I will give
      them a sheet with two problems to solve. Also, I will assign roles to each
      student on the groups.
   b) 18 minutes-- In this block of time, they will solve the exercises. Since,
      there are two problems, they will solve one problem and then, they will
      switch roles in order to solve the other problem.
   c) 6 minutes – I will put two groups together for comparing results.

II. Questions about last cover material (total 18 minutes)
   a) 3 minutes-- I will give to students an index card to write down any doubt
      about the class material that they do not understand.
   b) 10 minutes-- I will give randomly to the students an index card with a
      question to solve individually.
   c) 5 minutes-- I will explain the most common doubt on the board.

Note: All groups will have role interdependence (one solver, one recorder)
1. Consider the following Java code:

```java
int lowerLimit;
int divisor;
int result;

try{
    System.out.println("entering the try block.");
    result = lowerLimit/divisor;
    if(lowerLimit < 100)
        throw new Exception("Lower limit violation.");
    System.out.println("Existing the try block.");
}
catch(ArithmeticException e){
    System.out.println("Exeption: " + e.getMessage());
    result = 110;
}
catch(Exception e){
    System.out.println("Exeption: " + e.getMessage());
}
System.out.println("After the catch block");
```

What is the output if:

a) The value of `lowerLimit` is 50 and the value of the `divisor` is 10?
b) The value of `lowerLimit` is 50 and the value of the `divisor` is 0?
c) The value of `lowerLimit` is 150 and the value of the `divisor` is 10?
d) The value of `lowerLimit` is 150 and the value of the `divisor` is 0?
2. Correct any compile time errors in the following code:

```java
import java.util.*;

public class SAverage{
    public static void main(String[] args){
        double test1, test2, test3, test4;
        double average;

        try{
            Scanner inFile = new Scanner(new FileReader("a:\test.txt"));
            PrintWriter outFile = new PrintWriter("a:\testavg.out");

            test1 = inFile.nextDouble();
            test2 = inFile.nextDouble();
            test3 = inFile.nextDouble();
            test4 = inFile.nextDouble();

            outFile.printf("Test scores: %.2f %.2f %.2f %.2f %n", test1, test2, test3, test4);
            average = (test1 + test2 + test3 + test4) / 4.0;

            outFile.println("Average test score: %.2f", average);
        }
        catch(Exception e){
            System.out.println(e.toString());
        }
        catch(FileNotFoundException e){
            System.out.println(e.toString());
        }
    }
}
```