Lab Project 2  Computations With A Circle  
( You may work in groups of 2 people)  

Without using JGrasp or any other editor, write a complete java program called ComputationsWithACircle. You may hand write or use OpenOffice or other word processor to create the program.

Your program should

1. input the radius of a circle using Scanner
2. create the constant value \texttt{final double PI = 3.14159} to use in your computations
3. compute the diameter, circumference and area of the circle
4. print the radius, diameter, circumference and area of the circle with labels so that your output of your program is similar to

   Enter the radius of the circle: e.g., 3.5
   Circle Computations
   radius = 3.5 depending upon the input
   diameter = 7.0 depending upon the input
   circumference = 21.99113 depending upon the input
   area = 38.4844775 depending upon the input

5. Establish three good test cases for your program.
6. Show your handwritten java program and test cases to your instructor for comments and approval.
7. Compile and run your program on jgrasp. Check test cases.
8. Correct any errors in your program.
9. Hand in the final work product in this order
   a. source code,
   b. test cases,
   c. test case runs,
   d. handwritten program.
10. Put the names of both people in your group on all the material handed in. The java source code \textbf{must} have a header formatted as follows:
/* Project #2: Computations With a Circle
Programmers:
Date:
Description:
*/