Due: Th 2/18/16 and M 2/22/16
Object: Use arithmetic operations in a program. Use Math methods and the Math.PI constant. Use a Java constant.

For small amplitudes, the period $T$ of a pendulum can be approximated by:

$$ T = 2\pi \sqrt{\frac{L}{g}} $$

Where $L$ is the pendulum length in meters, and $g$ is a constant for the acceleration of gravity in m/sec$^2$. $g$ has a value of 9.8 on earth.

Write a Java program to ask the use for the length of a pendulum in meters. Name the class *Pendulum*. The program should find the period, $T$ in seconds. Since $g$ is a constant, make it a named constant in the program. Also use the value of $\pi$ provided in the Math class in the computation.