

### Project 3 - 10 points

This project deals with reading input from the user, storing the input into variables and displaying those variables. This program is just like project 2, but now we will use the **JOptionPane** class for the I/O and the wrapper classes to convert the input strings into primitive values.

The following identifiers will be used:

```
int        diameter, height;
double     radius;
double     circumference, areaOfCircle, cylVolume;
String     name;
```

You will still define a double constant whose value is 3.1415926.

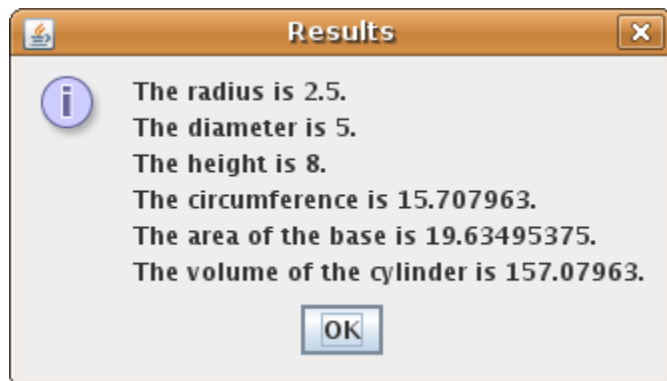
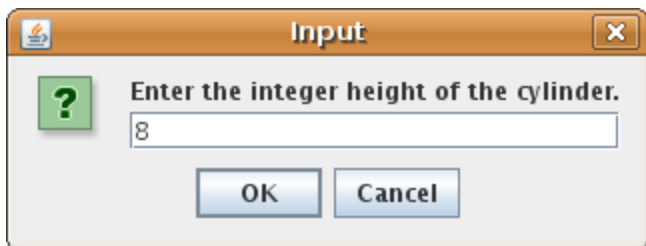
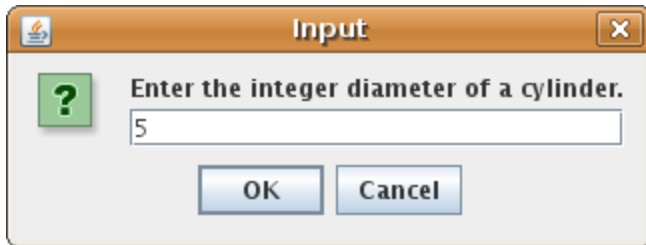
Prompt the user for their name and using the **showInputDialog()** method, read the name of the user.

Once the name of the user has been read, greet the user. Proceed to get the diameter and height of some aluminum can (cylinder) using the **showInputDialog()** method. Be sure to inform the user that these are **integer** quantities.

Calculate the circumference of the base of the can, the area of the base (using the **pow()** method of the **Math** class) and the volume of the cylinder. Display the radius, diameter, height, circumference, area of the base and volume of the cylinder using **showMessageDialog()**.

Your output should resemble (user provided values in the dialog boxes):





This project should be called p3.java and submitted using:

```
$ submit jojo p3.java
```