## Lab Rectangle with Menu

Download the starter project LabRectangleWithMenu.zip, unzip the file and open it in jGrasp.

There are two files: Rectangle.java and RectangleMenu.java.

Rectangle.java includes the class Rectangle. This class is already completed and should not be modified.

RectangleMenu includes a method called menuPrompt and main.

Complete the main method by doing the following:

- Create an instance of Rectangle and initialize it with length 5 and width 4
- Create an integer variable called selection. No need to initialize it at this point.

The variable selection needs to be declared before the do-while loop because we want to use it in the condition at the end of the do-while loop.

- Create a do-while loop that does the following:
  - call the method menuPrompt to prompt the user with a menu
  - read in a selction from the user (What is a good place to declare the Scanner instance?)
  - use a switch statement to respond to the user selection
    - o e.g. if user selects area the area of the rectangle should be printed
    - o if the user selects 0 the program should print good bye
    - o if the user enters a value less than 0 or greater 3 the program should print invalid input
  - The do-while loop should continue until the user enters 0 to exit

```
do-while loop
                             switch statement:
                             switch (selection)
do
{
                               case 0:
    statement(s)
} while (expression);
                                 statement(s)
                                 break;
                               case 1:
                                 statement(s)
                                 break;
                               default:
                                 statement(s)
                                 break;
                             }
```