I strongly encourage you to create a new subdirectory (i.e., a new folder) for each lab that you do in this course. To create a subdirectory named “lab1” and change into that directory, type the commands:

```
mkdir lab1
cd lab1
```

Get a copy of programs “Demo1.java” and “Demo2.java” from the course Web page. Compile and execute them to see what they do.

Now create a new Java program that creates a picture that looks like the following:
The ellipse is 100 pixels wide and 25 pixels tall, the rectangle is 25 pixels wide and 100 pixels tall (before rotation). The rectangle has been rotated by 45 degrees; the conversation bubble that says “HI!” has the default size for conversation bubbles. It has a frame thickness of 5 and a fill color of green.

All work should be done inside the constructor using the methods listed on page 71 of your book.

Your program should be commented — explain using comments what you are doing. (Example: “// Change size of conversation bubble” could come right before the statement that changes the size of a bubble.) Be sure your name appears in the header comments.

CHECKPOINT: Make sure your program creates a picture exactly like the one above (except in color, of course!). The corners of the bounding rectangles should be where the labels say they are, i.e., the ellipse should have location 100,200, the rectangle should have location 250,200, etc.

Raise your hand so I can come by and look at your results.

(Print your program.) To get a printed copy of your program, type:

```
a2ps classname.java
```

where classname is the name you gave to your file (for instance “Lab1.java”). Hand this in, signed with the honor code pledge.