Drill from page 516

Refer to Chapter 14 (especially section 14.3) or check out this link: http://www.cplusplus.com/doc/tutorial/inheritance/

The drill is exercise 1

1. Define two classes *Smiley* and *Frowny*, which are both derived from class *Circle* and have two eyes and a mouth. Next, derive classes from *Smiley* and *Frowny* which add an appropriate hat to each.

Note: You should write 4 classes, *Smiley*, *Frowny*, *Hatted_Smiley*, and *Hatted_Frowny* (for example), and a main which draws all 4 shapes.