

**Unit 1 Assignment 2:****Part a:**

Write a Java application that will construct the following 3 Rectangles.

Rectangle one: x = 5, y = 10, width = 20, height = 30  
Rectangle two: x = 10, y = 25, width = 35, height = 15  
Rectangle three: x = 20, y = 30, width = 10, height = 25

The program should then print these Rectangles to the console window and skip a line.

Next, your program should create a Rectangle four, which is the intersection of Rectangles one and two. It should also create a Rectangle five, which is the intersection of Rectangles one and three.

The program should then print Rectangles four and five to the console window. Paste your output at the bottom of your code.

**Part b:**

Write a Java applet that will have a yellow background and will contain the following 2 Rectangles in blue outline.

Rectangle one: x = 5, y = 10, width = 50, height = 80  
Rectangle two: x = 20, y = 50, width = 65, height = 55

Your program should then determine the intersection of Rectangles one and two and fill in this intersection in red.

Hit Alt/Print Scrn, this saves only the active window to temporary memory. Next, open a Word document and paste the contents of the temporary memory into it. Print out the Word document.

For more information on the Rectangle class, refer to the following web site.

<http://download.oracle.com/javase/6/docs/api/index.html>

Look for it in the Java.awt package.