

### CS116 – Activity 3

Take a look at the following code which draws a horizontal black line on a picture at a given y coordinate.

```
def drawHorizLine(picture, yValue):  
    for p in getPixels(picture):  
        y = getY(p)  
        if (y == yValue):  
            p.setColor(makeColor(0,0,0))
```

Try this function and make sure you understand how it is working

Now, complete the function which draws a solid black box on a picture with its upper left corner being at (startx,starty) with the specified width and height. You can do this by looking at each pixel and setting the color to black if the pixel coordinate is inside the box. You will need to test that both the x and y coordinates of the pixel are in the proper range.

```
def drawbox(picture,startx, starty, boxwidth, boxheight):  
    for p in getPixels(picture):  
        x = getX(p)  
        y = getY(p)  
        # complete the code here which checks that the pixel p is inside the box
```