

For Loops:

Take a look at the following code. What exactly would it print when it runs?

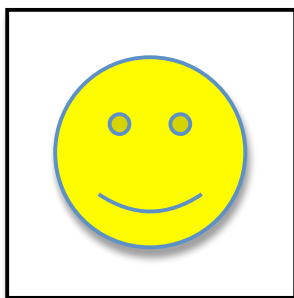
```
def whatAmI():  
    print "I'm a ramblin' wreck from Georgia Tech and a hell of an engineer"  
    print "A"  
    for i in range(0,5):  
        print "helluva"  
    print "engineer!"
```

Code Tracing:

Below you will find code that manipulates a picture. In the box below that, assuming the box is the original picture input, color in what the picture will look like after running the function. Hint: Recall that RGB values closer to zero are dark, and RGB values closer to 255 are bright.

```
def makeSomething(pic):  
    for p in getPixels(pic):  
        r = getRed(p)  
        g = getGreen(p)  
        b = getBlue(p)  
        newColor = makeColor(r/3,g/3,b/3)  
        setColor(p,newColor)  
    show(pic)
```

Here is the input picture, pic:



Write Your Own:

One day, a big company calls you and tells you they are desperate to find someone to write some code in Jython. Specifically, they need someone to write a function to take in an integer, then add up all the numbers from 1 to that integer and return the sum. For instance, if the function takes in 4, it would add $4+3+2+1$ and return 10. Unfortunately, the CEO has declared that no recursion is to be used to solve the problem. How would you write a for loop to do the same thing?