

```

1 # Loopy control flow
2 # Emily Hill for CSCI 117
3 # Is each function fruitful or void?
4
5 def get_area(width, height):
6     if width > 0 and height > 0:
7         return width * height
8     else:
9         print("\nERROR: width & height should be > 0")
10        if width <= 0:
11            print("\nwidth is", width)
12        else:
13            print("\nheight is", height)
14        return 0
15
16 def draw_line(number):
17     for j in range(number):
18         print("*", end='')
19     print()
20
21 def rectangle_outline(width, height):
22     for i in range(height):
23         # if we're printing the first or last line
24         if i == 0 or i == height-1:
25             draw_line(width)
26
27         # otherwise, if we're in the middle
28         else:
29             print("*", end='')
30             for j in range(1, width-1):
31                 print(" ", end='')
32             print("*")
33
34 w=25
35 h=10
36 print("The area of a %d x %d square is %d" % (w, h, get_area(w, h)))
37
38 rectangle_outline(w, h)
39
40 get_area(w * -1, h)
41 get_area(w, h * -1)
42
43 for s in range(5):
44     draw_line(s)

```

```

bash-3.2$ python3 loopy.py
The area of a 25 x 10 square is 250
*****
*                                     *
*                                     *
*                                     *
*                                     *
*                                     *
*                                     *
*                                     *
*                                     *
*****
ERROR: width & height should be > 0
width is -25
ERROR: width & height should be > 0
height is -10
*
**
***
****
bash-3.2$ exit

```