

#### Announcements

- Solutions to Nested Loop lab in Box folder – drawStars.py, TurtleFun.py
- Reminders
  - Program 5 due Thursday, October 17th by 11:55pm

## **Practice from Last Time**

Modify the Prime Numbers code given in class today (in Box.com folder called allPrimes.py) to print out the first 50 prime numbers, rather than just the prime numbers less than 100.

Once	you	get	that	wor	rking	g, ma	ake y	our	out	out lo	ook
like:	2	3	5	7	11	13	17	19	23	29	
	31	37	41	43	47	53	59	61	67	71	
	73	79	83	89	97	101	103	107	109	113	
	127	131	137	139	149	151	157	163	167	173	
	179	181	191	193	197	199	211	223	227	229	

Hint: format(i, '4d') allows you to format i (an integer value) to use exactly 4 digits



Practice	
Work in groups of 2-3 people to v	write code that will
Hints:	*
-You will need a nested loop.	* * *
-Count the number of stars and	****
the number of <b>blank spaces</b> in	******
each line and see how they	*******
-The trunk of the tree is drawn	* * *
after the loops complete	* * *

### **Saving Previous Value in Loop**

You may need to hold onto a previous input for a calculation later in a loop.

#### import random

```
prev_roll = random.randint(1, 6)
curr_roll = random.randint(1, 6)
print("Previous = ", prev_roll, "current = ", curr_roll)
while not(prev_roll == 1 and curr_roll == 1):
    prev_roll = curr_roll
    curr_roll = random.randint(1, 6)
    print("Previous = ", prev_roll, "current = ", curr_roll)
```

# **Saving Previous Value in Loop**

```
Input: 29 23 19 17 7 1 1
```

```
prev = int(input("Number? "))
curr = int(input("Number? "))
diff = prev - curr
while diff != 0:
    print("Difference = ", diff)
    prev = curr
    curr = int(input("Number? "))
    diff = prev - curr
print("Done")
```

