

COOL ENOUGH 2 CODE?

Loops in Python



# Logical Operators

Symbol	Name	Description	True Conditions
==	equal to	Checks values for equivalence	2 == 2
!=	not equal	Checks values for inequivalence	2 != 1
>	greater than	Checks for the left side being greater than the right side	2 > 1
>=	greater than or equals	Checks for the left side being greater than or equal the right side	1 >= 1 2 >= 1
<	less than	Checks for the left side being less than the right side	1 < 2
<=	Less than or equals	Checks for the left side being greater than or equal the right side	1 <= 2 2 <= 2
or		Checks for at least one condition to be true	1 < 2 or 1 == 2
and		Checks for all both conditions to be true	1 < 2 and 1 == 1
not		Negates a Boolean	not(1 == 2)

# Assign Results to a bool

- The results of a logical operator can be assigned to a bool variable.

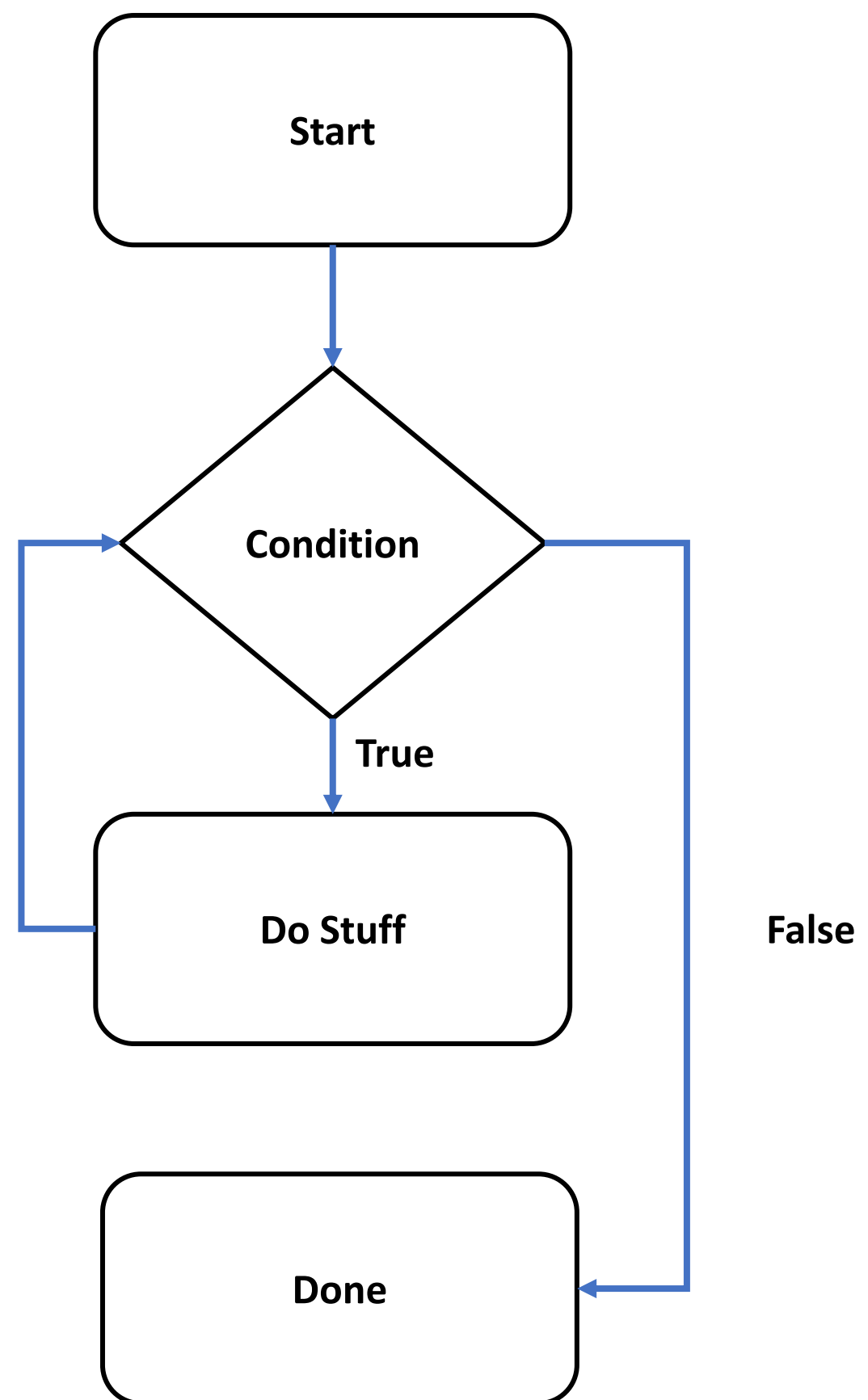
```
x = (1 == 2) # x is False
```

```
x = (1 == 1) # x is True
```

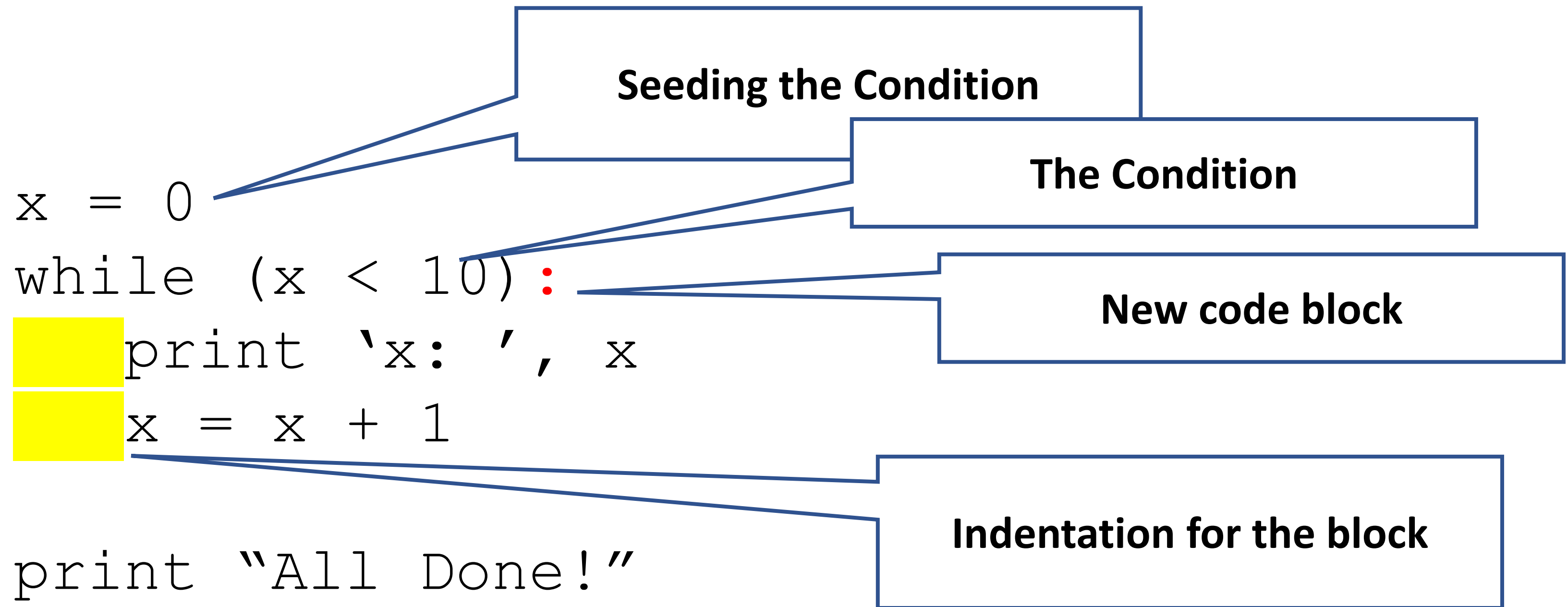
```
x = (1 < 1) # x is False
```

```
x = (1 <= 1) # x is True
```

# Loops



# While Loop



# For Loop

```
print "All Done!"
```

## “Step” (adds 1)

## Condition (max 9)

# While Loop

```
x = ""  
while (x != "P") :  
    x = input("Enter a letter: ")  
  
print "All Done!"
```

# Random Numbers

```
import random
```

```
x = random.randint(0,10)
```

```
print (x)
```



# Challenge

Create a Number Guessing Game!

- Generate a random number
- Loop until the user guesses the number right
- **BONUS:** Incorporate a maximum number of tries