Python Cheat Sheet

Variables

Declaring a variable:

```
my_variable = 2
name = "deep dish"
```

Increment/Decrement (add/subtract)

```
number += 1 #adds 1
number -= 1 #subtracts 1
```

You can add variables together!

```
n1 = 2
n2 = 4
print(n1 + n2)
>>>6
```

You can also add strings together!

```
s1 = "hello "
s2 = "world!"
print(s1 + s2)
>>>hello world!
```

Conditional Statements

Conditional statements evaluate to either *true* or *false*. There are three main conditionals: == (equals), > (greater than), and < (less than).

```
print(20 > 3)
>>>True
```

```
print("deepdish"=="altdragon")
>>>False
```

If / Else Statements

Use an **if statement** to check if something is true. If it is, do something! If it is not true, then do something else!

```
direction = "left"
if direction == "left":
     print("move left!")
else:
     print("move right!")
```

Use **elif** to add more than two conditions

```
direction = "forward"
if direction == "left":
     print("move left!")
elif direction == "forward":
     print("move forward!")
else:
     print("move right!")
```

Loops

Use loops to repeat code multiple times. Use a **while** loop when you don't know how many times you need to repeat. Use a **for** loop when you know the specific number of times a loop needs to run.

```
guessed = False
while not guessed:
     guess = int(input("Guess: ")
     if guess == 14:
          guessed = True
```

```
count = 10
for x in range(0, count):
     print("deep dish pizza")
```