Cheatography

Python Conditions Cheat Sheet by Nouha_Thabet via cheatography.com/103894/cs/21434/

Example

```
a = 2
b = 8
if (a < b):
    print("a < b")
>>> a < b</pre>
```

We must define scope before the print. In fact python relies on indentation (whitespace at the beginning of a line) to define scope in the code.

Elif

```
if (a > b):
    print("a > b")
elif (a < b):
    print("a < b")
>>> a < b</pre>
```

The elif keyword is used to say if the previous conditions were not true, then try this condition.

Else

```
if (a > b):
    print("a > b")
elif (a < b):
    print("a < b")
else:
    print("a is equal to b")</pre>
```

The else keyword catches anything which isn't caught by the preceding conditions.

Short Hand If

```
if a < b: print("a < b")
```

Short Hand If ... Else

```
Two conditions:
```

```
print("a > b") if a > b else print("a < b")
```

Three conditions:

print("a > b") if a > b else print("a is equal to b") if a == b else print("a < b") >>> a < b</pre>

A

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AND

```
if (condition_1 and condition_2):
    print("Both conditions are correct")
else:
    print("At least one of the conditions is
incorrect")
```

OR

```
if (condition_1 or condition_2):
```

print("At least one of the conditions is correct")

else:

```
print("Both conditions are incorrect")
```

Nested If

```
if (a > 0):
    if (a > b):
        print("a > 0 and a > b")
        elif (a < b):
            print("a > 0 and a < b")
else:
        print("a < 0")
>>> a > 0 and a < b</pre>
```

The pass Statement

if (a < b): pass

if statements cannot be empty, but if we for some reason have an if statement with no content, we can put in the pass statement to avoid getting an error.