

Aim: How are conditionals used in Python?

Do Now: Quick Review

What are conditionals? What are they used for?

Conditionals in Javascript vs. Scratch



Javascript:

```
if (hour < 18) {  
  greeting = "Good day";  
} // explain this code
```

Conditional Syntax in Python

Javascript:

```
if (hour < 18) {  
    greeting = "Good day";  
}
```

```
print("this will always print")  
if (condition):  
    print("this will only print if condition is True")  
print("this will also always print")
```

Any major differences here?

Conditionals in Python

```
print("this will always print")
if (condition):
    print("this will only print if condition is True")
print("this will also always print")
```

- A few notes:
 - The colon is required
 - The parentheses after the if is NOT required
 - The tab (4 spaces) on the new line after the colon IS required

Conditionals in Python

Same as Javascript,
you can have as
many conditions as
you want...

Note the alignment
of the if/elifs!

```
if (condition):  
    print("do something")  
elif (condition2):  
    print("do something else")  
elif (condition3):  
    print("and something else")  
elif (condition4):  
    print("and more")
```

Conditionals in Python

Reminder: “else” basically means “for all other cases”

An else statement must come at the **end** of an if/elif block. It should be aligned with the if statement. It does **not** have a condition.

```
if (condition):  
    print("do something")  
else:  
    print("for all other cases")
```

Conditionals in Python

Order STILL matters!

The second elif statement will never be checked.

→ In general, put the more “specific” checks on top.

```
if x > 5:  
    print("x is greater than 5")  
elif x > 10:  
    print("x is greater than 10")  
else:  
    print("x is less than or equal to 5")
```

Activity: Vowel Checker

Write a Python program in *Replit* that will ask the user for a letter input and then print “It’s a vowel!” if the inputted letter is a vowel and “It’s a consonant!” otherwise.

Name the program: Conditionals_practice#1

Examples:

```
Enter a letter in lowercase: i  
It's a vowel!
```

```
Enter a letter in lowercase: d  
It's a consonant!
```


Summary: Make sure you submit your code for this activity!