

Trivia Night

A Teknowledge Activity

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Student Learning Goals:

- **Learn about:** Conditionals (if, elif, and else), Loops, Print, Input

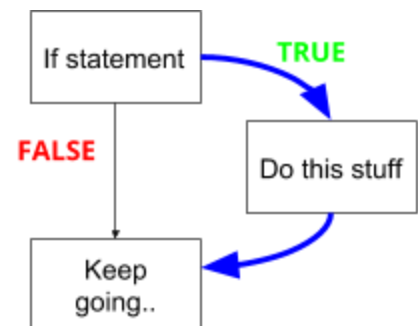
1.0 What If...?

If statements tell a program to run some code **only if** something is **true**.

Copy the following code.

```
if 2 < 3: # if statement
    print("2 is less than 3!") # do this stuff
print("Keep Going!") # keep going
```

- The above code takes the path highlighted by **blue arrows** at right.
- What do you think will happen when the above code is run?



Now change the above code so that the second line never runs.

- Hint: Change the the less than sign to a greater than sign.



Now, add the highlighted lines of code!

```
if 2 > 3:
    print("2 is less than 3!")
print("Keep Going!")

if 20 > 10:
    print("20 is greater than 10!")
    print("omg!")
print("Hello, I always get printed.")
```



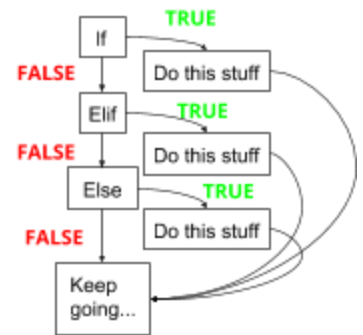
1.1 Give me some options!

In real life, most of the questions we ask don't just have true/false answers. If there's apple juice in the house, we'll drink apple juice. If not, we'll have orange juice. If there's no orange juice either, we'll have some water.

Add the following code.

```
juice = input("You got juice?")

if (juice == "apple"):
    print("Yay! Apple juice!")
elif (juice == "orange"):
    print("Yay! Orange juice!")
else:
    print("I guess I'll have water... :(")
```



- Make sure you use **two equal signs ('==')** when checking if two things are equal, using one means setting a variable.
- Before running, what do you think this code will do?
- When do you think the elif code gets run?
- Ask your mentor when to use elif!

2.0 So the Night Begins..

Delete all existing code and copy the following blocks of code.

```
print("Welcome to trivia night.")
input("Ready? Press enter to start the game!")

answer = input("Where is Bulbasaur from?")

if answer == "Pokemon":
    print("Correct!")
else:
    print("You were wrong! GAME OVER!")
```

- What happens if `answer == "pokemon"` instead of `"Pokemon"`?
- Modify the input to ask a different question! Which input will you need to modify?
 - After you modify the question, modify the answer that is checked.
 - Which line of code checks if the answer was correct?

Before moving on you must be able to explain the following to your mentor.

- How is input different from print?



3.0 Keeping Score

Modify the code above to the following. (Changes highlighted)

```
print("Welcome to trivia night.")
input("Ready? Press enter to start the game!")
score = 0
answer1 = input("Where is Bulbasaur from?")

if answer1 == "Pokemon":
    print("Correct!")
    score += 1
else:
    print("Sorry, you were wrong!")

answer2 = input("What does Fred Flintstone wear?")

if answer2 == "tie":
    print("Correct!")
    score += 1
else:
    print("Sorry, you were wrong!")

print("Your score is " + str(score))
```



- Before running the code, walk through each line, and make sure you understand what they are doing.
- What *type* do you think the variable `score` is? Ask your mentor!

4.0 Complete Your Game!

Complete the following with help as needed!



- Add **three** more questions to your game.
- Add some `elif` statements, so you can give **partial credit**.
- Using a `for` loop, give people **multiple chances** to guess the answer.
- Using the following website, look up how to use `.lower()` or `.upper()` and find a way to make your game not case-sensitive.
 - tinypurl.com/CSstrings