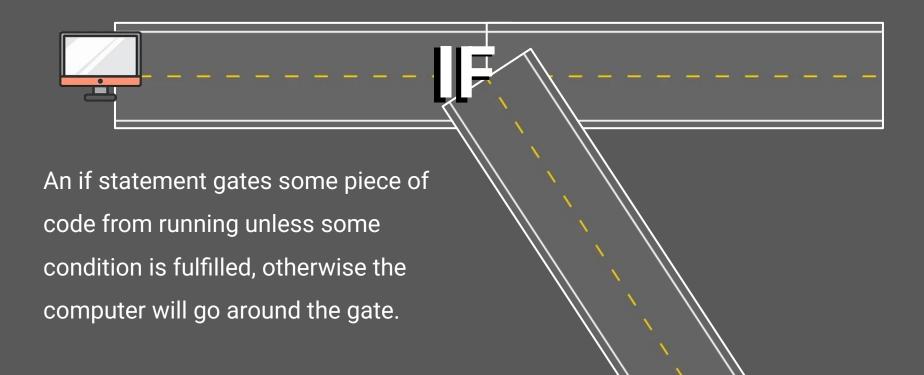
If Statements

Conditional Gates



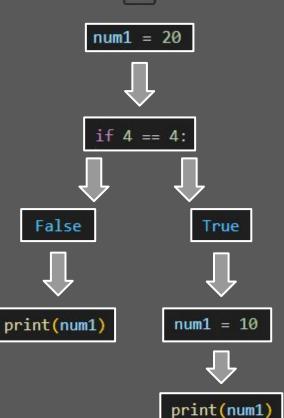
If Statement Syntax



```
1  num1 = 20
2
3  if 4 == 4:
4     num1 = 10
5
6     print(num1)
INDENT
```

Syntax if [conditional statement]: [gated code]

INDENT





Memory

num1

20

If Example 1

```
num1 = 20
if 4 == 4:
num1 = 10
```



Pay attention to the syntax

We have one variable that is assigned a value at the start. Under some condition it is then re-assigned a new value.

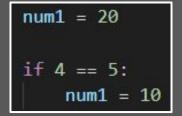


Memory

num1

20

If Example 2





Pay attention to the syntax

We have one variable that is assigned a value at the start. Under some condition it is then re-assigned a new value.

Math Grader

Using the code we had for the math calculations, we will add a new input prompting the user for their solution to the formula. Then we will use an if statement to check whether it is correct.

Code Techniques Used

- if statements
 - math conditional statements