Unit 3 – Lesson 2: Simple if's

Try it:

```
value = int(input("Enter a number: "))

if (value > 0):
    print ("Positive")


print ("Done")
```

- What happens?

If Statements:

- Act as a gate – blocks off some code

- *If* the test is true, then the code runs

- *If* the test is false, then it is skipped

Syntax

- The set of rules that guide what is correct code for the compiler to run.

- It is the grammar of coding

- Each computer language has its own syntax

Try it:

```
word = input("Enter the secret word: ")

if (word == "python"):
    print ("Correct!")

print ("Done")
```

- What does it do?

Relational Operators:

- The symbols used to compare values in true/false tests

- Ex:

```
if (word == "python"):
```

Relational Operators:

<	Is Less Than
>	Is Greater Than
==	Is Equal To
!=	Is Not Equal To
<=	Is Less Than or Equal To
>=	Is Greater Than or Equal To

Try it:

- Write a program to input a number and test if it is less than or equal to 1000.

Vocabulary

if	Command that tests a true/false condition.
Relational Operators	The symbols used to compare values in true/false tests.
Syntax	The set of rules that guide what is correct code for the compiler to run.

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