

An Introduction to Python

Coding: Writing Instructions for a Computer

What Does a Computer *Really* Understand?

(The WHY of Python)

- Into the chat, type one thing that you think a computer can do, **BUT DO NOT YET PRESS ENTER!**
- No matter what you have seen a computer do, all it can truly do is work with ones and zeros, nothing else!

Activity

(The WHY of Python)



- Follow these instructions:
 - A. Multiply 365 by 10
 - B. Then add 20
- Into the chat, type your answer, **BUT DO NOT YET PRESS ENTER!**

Activity

(The WHY of Python)



- Follow these instructions:

A. 010011010111010101101100011101000110100101
110000011011000111100100100000001100110011
0110001101010010000000110001001111001001000
000011000100110000

B. 01010100011010000110010101101110001
10000101100100011001000010000000110
0000

You can only follow instructions that are written in a language you understand!

What is *Coding*

(The WHAT of Python)

- Coding is writing instructions for the computer to follow.
- Sometimes coding is called "programming"
- Python is a great programming language because:
 - It's easy for us to understand and learn
 - It's widely used by computer scientists

Writing Code

(The HOW of Python)



Open the following link and wait for further instructions:

<https://repl.it/languages/python3>