MODULE 0

INTRODUCTION

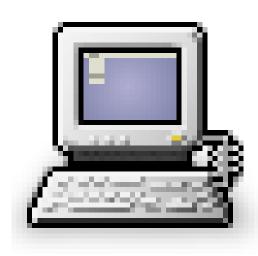# What is Code?

Instructions for the computer

Languages

There are many languages used for coding, some of the most popular are:
◦ Python (what we'll be learning)
◦ Java
◦ C, C++
◦ Javascript

What happens
◦ Code is an abstraction or representation of lower level commands that are easier for the computer to run. When you run a program the code itself is made into something that your computer can better understand then ran on your hardware.

What is python?

- Created in 1991

- Easy to learn and use

- Multipurpose: Web Development, Scientific & Statistical support, IoT

- Extensive library support

- Open source

- Run by the Python Software Foundation

Other Vocab

Memory
- ◦ Random access memory (or cache memory) of the computer
- ◦ good for short-term storage

Disk
- ◦ the hard drive in your computer
- ◦ good for long term storage

Developer
- ◦ Someone who writes code

Try it out

1: Write a program to print your name

2: Write a program that prints the results of the following expressions:
- $7 + (2 - 3) + -1^3$
- $\sqrt{3^2 + 4^2}$
- $\sqrt[3]{8}$

3: Write a program that prints the remainder of $\frac{2^{31} - 1}{2}$