INTRO TO PROGRAMMING

"Hello There..." -Obi-Won Kenobi

PROGRAMMING. WHAT AND WHY?

Computers and humans do not speak the same language...At all.

Computers see everything as an on or off or as we see it now 1s and 0s. This is called digital.

We need a way to get human ideas into the 1s and 0s and that is where programming languages come in.

OUR FIRST PROGRAM IN PYTHON

Python is a great first language. It is simple to learn

and forces the user to write clean readable code.

⚠️ If you are on MacOS you need to install python if you haven't yet. How do you think you would use brew to install python?

OUR FIRST PROGRAM IN PYTHON

Hello World!

Open up VS Code and create a new file (File->"New File" or ctrl-n) and type the following:

```python
print("Hello World!")
```

OUR FIRST PROGRAM IN PYTHON

Save file in the Digital-Crafts-First-Project folder (File->"Save As" or ctrl-s) as "hello_world.py"

⚠ If you named the repository something different your folder would be different.

OUR FIRST PROGRAM IN PYTHON

Open the terminal and type the command:

```
cd ~/Digital-Crafts-First-Project

python3 hello_world.py
```

(!) 'python' would work too, but some systems may have python2 set as the default and some future projects will need python3.
You can check the default version of python by typeing in the command :
python --version

CONGRATULATIONS

You are a programmer.

HELLO WORLD

... WHY?

Hello World was first Introduced in a 1978 book "The C Programming Language" as the first program to write.

Since then it has become the "unoffical, offical" first program to write for most other languages.

EXPRESSIONS AND STATEMENTS

This program is a simple statement that prints an expression to the screen.

EXPRESSIONS AND STATEMENTS

```
"hello World"

23+19

x < b
```

An Expression is a piece of code that results in a single value.

EXPRESSIONS AND STATEMENTS

```python
print('Do or Do not, there is no try.')

yoda_size = "short"
```

A statement is a single instruction that uses or manipulates a value.