Intro to the Mu Editor and Python

Unit 2 Lab 0

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The Mu IDE

IDE = Integrated Development Environment

- Written in Python
- A simple development environment for Python
- Targets educational use

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Typical IDE Features

- Source file editor - create, save and modify source files
- Run automation - One button run of source file
- Debuggers - Ability to create breakpoints and step through code line by line

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More Mu IDE Features

- Multiple Python version support by selecting Mode
- Built-in data plotter
- One click access to Python REPL
- Check and Tidy options

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Mu IDE and Python REPL

REPL = Read Evaluate Print Loop

- Python is an interpreted language
- The interpreter Reads a line of code, Evaluates the line of code, Prints any output and Loops
- REPL provides quick access to the interpreter for quick code checks

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Python Big Ideas

6 Basic programming abilities

1. Do math
2. Inputs
3. Outputs
4. Make and use variables
5. Make decisions (If-then conditional statements)
6. Repetition / Loops