**Couch to coder**

**Week 1: Laying the Foundations.**

Got an introduction to python worked with conditional logic and conditional flows.

**My 1st assignment as a beginner:**

Conditional flows with a bank ATM system.

Worked on an assignment where we understood bank ATMs using python and I got to build one myself. The task was to make a pin number at a bank ATM where I used control flows for example: if the pin number is correct get me my money. If not, cannot access money.

A screen shot of a computer program

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I eventually improved it by implementing a complete withdraw and deposit system with money which has a bank balance. This was a fun part of the project as I went from not knowing how to code at all to making something for the first time like a bank ATM system using conditionals and flow control.

**Week 2: Expand your Horizons.**

Advanced data structures with lists, dictionaries, and loops.

**2nd Assignment: Worked with rivers list in dictionaries with lengths of the rivers.**

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In this assignment I worked mainly on printing out the list of river names then I worked on showing the total of the river lengths which was very easy.

I started adding in my own things such as finding the mean of the river lengths which would help me in data analysis skills in finding the mean of a data set. In this case, the river lengths.

A screenshot of a computer program

Description automatically generated

Improved from the extension as we told python to print out all rivers beginning with the letter “M”.

Also, told python to convert miles to kilometres which is roughly 1mile = 1.6km.

Week 3: Unlocking the Power of Algorithms

3rd party packages, research techniques and functions.

Week 4: Dive into Data Analysis

Basic data analysis and read from files/write from files using python.

Week 5:

Optional session pick a package and build your own thing.