# Python 2—Core Features

Challenges 1 – 5 in CyberStart Moon Base Level 2 cover the very basics of if statements, functions, loops, and data structures (lists and dictionaries) in Python. Python information is available in the CyberStart Field Manual, or in the free online book, Automate the Boring Stuff with Python <https://automatetheboringstuff.com/> (scroll down to see the table of contents.)

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| Chal. | Title | Topics | Field Manual | Automate Boring |
| 1 | Flow with Conditionals | if, elif, and else | 5.8 Conditionals | Ch 2 Flow Control |
| 2 | Logical | >, <, ==, not, and, or, True, False | 5.8 Conditionals | Ch 2 Flow Control |
| 3 | Let's Get Functional | function, def, return | 5.10 Functions | Ch 3 Functions |
| 4 | Hooray for Arrays | basic list, dict | 5.6 Lists, 5.7 Dictionaries | Ch 4 Lists, Ch 5 Dict. |
| 5 | Going Loopy | while, for, -=, range() | 5.9 Loops | Ch 2 Flow Control |

Please complete the Level 2 challenges. There is no other hand-in for this lab, so if you have joined our class group in CyberStart (access code is email-ocean-pilot) I’ll see your work and you will not need to turn anything in to Canvas.

Note: Sometimes CyberStart can be picky about the answer it wants to see. If CyberStart won’t give you credit when you are sure you are correct, run the code in your own Python. Then send me the results via email through Canvas.