

IOT: Introduction to Python programming

Tue Nov 7, 2023
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Roadmap for the rest of class

Week 7

Tue Nov 7 - Intro to Python

Thur Nov 9 - Writing code on an Arduino Nano

Week 8

Tue Nov 14 - IOT Lecture - **Guest** Lecture

Thur Nov 16 - IOT Lecture - Zoom

I am out of town during week 8

Will have more details in class on Thur Nov 9
and will post to canvas with details

Week 9

Tue Nov 21 - IOT Lecture

Thur Nov 23 - Thanksgiving - NO CLASS

Week 10

Tue Nov 28 - More building or lecture ???

Thur Nov 30 - More building or lecture ???

Week 11

Tue Dec 5 - Oral Presentations

Thur Dec 7 - Oral presentations

Plan for today Tue Nov 7th

1) I will go over some basics of programming in Python

2) We will use a browser to look at some of the code and play with it

<https://cudmore.github.io/iot-fall-2023/>



For next class, I want some people to install Microsoft Visual Studio Code and configure it for use with an Arduino Nano (see online documentation)

That QR code points to our online documentation

** Always look to canvas for class announcements!!!

A screenshot of a web browser displaying the 'IOT Documentation' website. The page has a blue header with the 'IOT' logo and a search bar. On the left, there is a navigation menu with categories like 'Introducing IOT', 'Install and Configure VS Code', 'Breadboard Basics', 'Wiring a button and RGB LED', 'Arduino Nano Pin Diagram', and 'Intro To Python'. The 'Intro To Python' section is expanded, showing sub-items: 'Running notebooks online', '1 Variables', '2 Logic with if ... else', '2.5 Indenting', '3 Looping with for', '3.5 Looping Lesson 2', '4 Functions', and '5 Classes'. The main content area is titled 'Running notebooks online' and contains the text 'Running Jupyter notebooks interactively online'. It lists three steps: 1) Go to <https://mybinder.org/>, 2) Enter the url for our iot class: `https://github.com/cudmore/iot-fall-2023`, and 3) Click the 'launch' button. Below this, it says 'Wait a bit and you will get an interface like this.' followed by a small image of a Jupyter interface. It then says 'Finally, double-click on the left into:' followed by a code block showing a file tree with 'docs' and 'intro-to-python'. At the bottom, it says 'You can then run the Jupyter notebooks interactively.'