Python Chapter 1

Ezequiel Torres

June 14, 2024

Table of contents

Before getting started

Basic Expectaions

Environment setup

Variables

Variables and Concatenation

Variables Exercise

We will be going over the basics of python and interviewing in python in this course. Here are some great resources to get started.

http://programarcadegames.com

We will be going over the basics of python and interviewing in python in this course. Here are some great resources to get started.

- http://programarcadegames.com
 - Fun way to learn python at your own pace while making arcade games!

We will be going over the basics of python and interviewing in python in this course. Here are some great resources to get started.

- http://programarcadegames.com
 - Fun way to learn python at your own pace while making arcade games!
- https://www.crackingthecodinginterview.com/

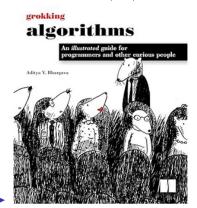
We will be going over the basics of python and interviewing in python in this course. Here are some great resources to get started.

- http://programarcadegames.com
 - Fun way to learn python at your own pace while making arcade games!
- https://www.crackingthecodinginterview.com/

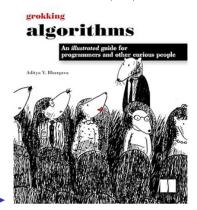


https://www.amazon.com/Grokking-Algorithms-illustrated-programmers-curious/dp/1617292230

https://www.amazon.com/Grokking-Algorithms-illustrated-programmers-curious/dp/1617292230

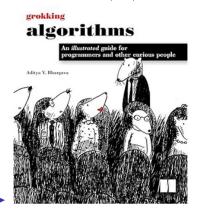


https://www.amazon.com/Grokking-Algorithms-illustrated-programmers-curious/dp/1617292230



https://github.com/zeaktorres/WSU-Python-Workshop-2024/

https://www.amazon.com/Grokking-Algorithms-illustrated-programmers-curious/dp/1617292230



- https://github.com/zeaktorres/WSU-Python-Workshop-2024/
 - Where the notes will be stored

Basic Expectations

There are a few things this course considers you have a basic understanding of.

- 1. The terminal
- 2. Basic programming in C or C++
- Some understanding of data structes (however we will cover this too)

It is perfectly fine if you do not feel like an expert in any of these fields, please feel free to raise you hand if you have any questions about any of these.

Environment setup

Here are the basic steps to running python.

On a Windows PC, you will download the exe: https://www.python.org/downloads/.

On Linux, use the appropriate package manager. The schools Linux lab uses X so you will use "sudo", however they should have python already installed.

On Mac, idk. If you have a Mac and are having trouble running python let me know, I will be able to help you

IDE?

Well this is the more... unique part? Essentially you can choose whatever editor you want. You don't even have to use an IDE, you can edit python in notepad++! Then, when you want to run the SCRIPT, simply run "python SCRIPT" in the terminal.

- 1. Python's own IDE, yeah probably don't use this one
- VSCode, a very popular text editor in electron. Great for industry practice
- 3. Pycharm, I don't have much experience with pycharm but I've heard great things if you want to give it a shot
- 4. Neovim/Vim, I personally use Neovim because I hate myself

Variables

Here we will go into some basic examples of variables in python. First, variables should be lowercase

Also, variables are not typed like in C or C++ since python is a dynamically typed language. Meaning the variables are determined at runtime

- 1. x = 5
- 2. y = 10
- 3. print(x + y)

15

Variables and Concatenation

"In formal language theory and computer programming, string concatenation is the operation of joining character strings end-to-end" - Wikipedia

IE: print("Hello" + "World")

Variables Exercise

Write a python program which prints a users mpg. You can take in input in python like the following:

miles_driven = input("Enter the number of gallons")

Note: These exercises are purposely vague as are interview questions to get you to ask important questions

Note: Sometimes interviewers will give you hints if you are struggling but some interviewers will take taking a hint as a negative