SYLLABUS

100 DAYS OF PYTHON

Learn Earn & Fun

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BEGINNER PYTHON

Local Development Environment Setup

PyCharm Tips and Tricks

Print, Input, Len Function

Variables

String Manipulation

Variable Naming Rules
Mathematical Operations
Data Types
Converting types
Conditionals IF/ELIF/ELSE
Logical Operators
Randomization
Error Handling
Functions

For Loops
Code blocks and Indentation
 While Loops

Flowchart Programming
Positional and Keyword Arguments
 Python Dictionaries and Lists
Nested Collections
Returning Functions
Return vs. Print

Doc Strings vs. Comments
Scope and Local/Global Variables
Debugging Techniques

INTERMEDIATE PYTHON

Python Object Oriented Programming
Creating Classes in Python
Using External Python Modules/Import
Getting / Setting Attributes
Python   Methods
Class   Initialisers
Module Aliasing
Optional, Required and Default Parameters
Event Listenters
Python Instances and State
Python Turtle
Game Development with Python and OOP
Python Inheritance

Python Slice Function
File I/O Reading and Writing to Local Files
File Directories
Reading and Writing to CSV Introduction
to the Pandas Framework List
Comprehensions

Dictionary Comprehensions
Packing and Unpacking Functions
Creating Desktop GUI Apps with Tkinter

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1 0 0 D A Y S OF PYTHON

Strongly Dynamic Typing
Error Handling and Exceptions
Try / Except/ Raise
Working with JSONs
Local Persistence
Sending Email with Python and SMTP
Working with date and time
Hosting Python Code Online with PythonAnywhere

INTERMEDIATE +

APIs
Making HTTP Requests with the Requests module
 Sending Parameters with the Request
APIs with Authentication
Sending SMS with Python
Web Scraping with Beautiful Soup
Browser Automation with Selenium Web Driver
Automating Tinder
Automating Twitter
 Automating LinkedIn
Automating Instagram
Web Development with Flask
Command Line
Python Decorators
Templating with Jinja 2
WTForms
Web Development with Django

ADVANCED PYTHON

Build Your Own REST API with Python
Build Your Own Blog
Databases with SQLite
Dataframe Inspection
Sorting Values in Dataframes
Arithmatic Operations with Pandas
Using Jupyter Notebook
HTML Markdown
Creating NumPy ND Arrays
Array Slicing and Subsetting
Matrix Multiplication
Bitwise and Operators in Pandas

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PROFESSIONAL PORTFOLIO BUILDING PROJECTS

Text to Morse Code Converter
Portfolio Website
Tic Tac Toe Game
Typing Speed Test
Todo List Website
Image Color Palette Generator
Automating the Google Dinosaur Game
Space Invaders Game
Custom API Driven Website

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