Python Learning Hierarchy

Part 1 Part 2 **Python Basics Python Intermediate** ☐ Functions/methods Introduction to Python ☐ Understanding How Python works and the Python Types of Functions compiling procedure Practice types of examples to understand better ☐ Features and Application Of Python Examples Understanding Syntax of Python Python Scopes ☐ Understanding Syntax of Python Class and Objects Understanding datatypes in Python ☐ Understanding what is class? ☐ Types of datatypes Understanding what is Objects? Understanding keywords in Python Examples Understanding Variables OOPS Concepts Types of Variables ☐ Constructors ☐ Rules of Variables ☐ Types of Constructors Important More Hands-On Examples needed ☐ Inheritance 1. Conditional statements ☐ Types Of Inheritance Understanding Types of Conditional statements Examples on each one to understand the usage Examples on each conditional statements to Polymorphism understand better ■ Method Overloading and Method Overriding 2. Looping statements Examples on polymorphism to understand the Understanding Types of Looping statements usage Examples on each Looping statements to Encapsulation understand better Examples on it to understand the usage Understanding how loops works in basic data Abstraction structures like lists, tuples, dictionary, sets Examples on it to understand the usage 3. Mode hands on(Practice) by using Conditional & Looping Interface Basics Data structures with inbuilt methods and Examples Examples on it to understand the usage of it ☐ Understanding assert statement List & Its built in methods ☐ Exception Handling Understanding try myList = ["Apple", "Mango", "Orange", "Banana", "Grapes"] #Do Like below you will get builtin method ☐ Understanding Except myList.<Here you will get built-in methods> Understanding Else ☐ Tuples & Its built in methods Understanding Finally Python Database CRUD Operations myTuple = (1,2,3,4,"aaa","bbb","ccc") (https://www.tutorialsteacher.com/python/database-crud-#Do Like below you will get builtin method myTuple.<Here you will get built-in methods> operation-in-python)

Python Learning Hierarchy 1

☐ Dictionary & Its built in methods

☐ Python Lambda Expression

<pre>myDict = {1:"One",2:"Two",3:"Three",4:"Four",5:"Five"} #Do Like below you will get builtin method myDict.<here built-in="" get="" methods="" will="" you=""></here></pre>	☐ Python Recursion
	☐ Python Iterators
	☐ Python Generators
☐ Set & Its built in methods	☐ Python Decorators
<pre>mySet = {1,2,2,3,4,5,6,7} #Do Like below you will get builtin method mySet.<here built-in="" get="" methods="" will="" you=""></here></pre>	☐ Python Property
	☐ Python RegEx
	☐ Python Modules
☐ Understanding Python - Error Types	☐ Python Date & Type
☐ Understanding Python Magic or Dunder Methods	☐ Python JSON Operations
(https://www.tutorialsteacher.com/python/magic-methods-in-python)	☐ Python Pip Usage
	☐ File Operations in python
	☐ Advanced Python
	☐ Numpy
	☐ Pandas
	☐ Matplotlib
	☐ Seaborn
	☐ SciPy
	☐ Get Started To Artificial Intelligence

Insights

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Open Source Developers Community

- The Curious developers Community <u>curious developers.in</u>
- Telegram Link https://t.me/+7iA1gNQwgStlZDJl

Resources Link

- Learning Materials (Java)
 - https://drive.google.com/drive/folders/11uXn5N5WU41kCe3U5be5v7zRmYTGMNKo?usp=drive_link
 - https://drive.google.com/file/d/1gOYrlkT8zaXbLov5hk1FG62PaFA8sc_o/view?usp=drive_link
- Selective Websites
 - https://www.tutorialsteacher.com/python
 - https://www.w3schools.com/python/
 - $\circ \quad \underline{\text{https://www.programiz.com/python-programming}}\\$
- Learning Materials (Java and DSA)
 - $\circ \ \ \, \underline{\text{https://drive.google.com/drive/folders/1NcQw1qvB1P8F_Xib3MApASQuXGc0s29m?usp=drive_link}}\\$
 - $\circ \ \ \underline{https://drive.google.com/drive/folders/1Da_v5uHIvBscWcRRgMsYGq-hJ00dQL9Y?usp=drive_link}$
- Informative Documents
 - Archives https://curiousdevelopers.in/community-archives/

Python Learning Hierarchy 2

- Roadmaps https://curiousdevelopers.in/roadmap-to-becoming-a-full-stack-developer-tips-tricks-and-essential-skills/
- o Important Examples https://curiousdevelopers.in/important-interview-preparation-checklist/
- o ATS Resume Building Guide https://curiousdevelopers.in/how-to-create-ats-resume/
- How To Be A Good Programmer https://curiousdevelopers.in/how-to-be-a-good-programmer/

Tips & Usage



EVERYONE IMPORANT: Steps to become a good developers

- Always learn in one resources which is attached below or which we share further and compare or get clear your doubt on other resources
- 2 A good programmer makes a document (Digitally) on each concepts that he learns it contains theory in simple understandable words along with respective pitcher of code/code for each concepts
- Notes that i made: platform (Notion)https://codershandbook.notion.site/Java-Notes-90f8ccf0c23242c0bd407291535fae40
- you can also use *Notion* digital documentation
- For example I'm reading some concepts in some website/resources, in that website/resource the concepts are little tough or not able to understand or the information is less. So what you can do at that time. Use other resources which is provided or watch any YouTube videos/other video oriented things to understand those concepts
- If possible please don't waste your precious time by watching lengthy videos of some simple concept

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