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Python Tutorial - Getting Started ----- With our "Try it Yourself" editor, you can edit Python code and view the result. `print("Hello, World!")` Click on the "Try it Yourself" button to see how it works. File Handling in Python ----- In this section, we'll learn how to open, read, write, and delete files. You'll also find complete function and method references for file handling. Database Handling in Python ----- Our database section covers how to access and work with MySQL and MongoDB databases. You can also test your knowledge with a Python quiz. Additional Resources ----- * See all Python Exercises. Learn by examples! * See All Python Examples: This tutorial supplements all explanations with clarifying examples. * Take the Python Quiz: Test your Python skills with a quiz. * My Learning Track: Log in to your account, and start earning points! (Optional) * Python Reference: Complete function and method references are available. Why Learn Python? ----- Python is one of the most popular programming languages today. Its simplicity, extensive features, and library support make it beginner-friendly while powerful for developers. Key Features ----- **## 1.** Versatile and High-Level Programming Language Python requires fewer lines of code compared to other programming languages. **## 2.** Easy-to-Learn Syntax Python's syntax is perfect for beginners and experts alike, making it easy to learn and read. **## 3.** Extensive Library Support Python has an extensive library support, providing popular Web Development, AI/ML, Data Science, and Data Analysis Libraries like Django, Flask, Pandas, Tensorflow, Scikit-learn, and many more. Getting Started with Python ----- Here's a simple Python code to get you started: `python # First Python Program def print_name(): name = input("Enter your name: ") print(f"Hello, {name}!") print_name()` In this section, we'll cover the basics of Python programming, including installing Python, writing first programs, understanding comments, and working with variables, keywords, and operators. Python Tutorial Overview Python's extensive collection of data types, including lists, strings, tuples, sets, dictionaries, and arrays, will be explored in detail. Key Concepts Covered Data Structures: Essential modules like collections, heapq, deque, OrderedDict, defaultdict, and quiz on various data structures are provided for learning. Object-Oriented Programming (OOPs): This section covers core principles of OOP in Python, including encapsulation, inheritance, polymorphism, abstract classes, and iterators to build modular code. Exception Handling: Understanding how to handle unexpected errors and file handling is crucial, enabling robust and fault-tolerant code. File Handling: Reading from and writing to files, as well as file manipulation techniques, will be discussed. Database Handling: Accessing and working with MySQL and MongoDB databases is an essential skill for any programmer. Python Packages or Libraries: Utilizing the extensive collection of Python packages and libraries, including built-in modules, DSA libraries, GUI libraries, and more. Data Science with Python: This includes foundational libraries, advanced visualization and statistical tools, machine learning libraries, deep learning frameworks, and web development with Python. Web Development with Python: Core web frameworks, database integration, front-end and backend integration, API development using Flask-RESTful and Django REST Framework are all covered. Python is a versatile programming language that offers a strong foundation for beginners and professionals alike. It's known for its simplicity, ease of use, and flexibility. Some key features include: * Easy to read and write syntax * Interpreted language, making debugging and testing easy * Object-oriented and functional programming capabilities * Dynamically typed, allowing for flexible coding * Extensive libraries for tasks like web development, data analysis, machine learning, and more Python's simplicity and versatility make it a popular choice for various applications: * Web development: frameworks like Django and Flask for creating dynamic websites * Data science & analysis: extensive libraries like Pandas, NumPy, and Matplotlib for handling large datasets * Machine learning & AI: powerful libraries like TensorFlow, Keras, and Scikit-learn * Scripting & automation: ideal for writing scripts to automate tasks in different systems Some notable frameworks and libraries include: * Django and Flask for web development * BeautifulSoup and Scrapy for web scraping * Tkinter and PyQt for desktop app development * Pygame for game development Python is often compared to other programming languages like C, C++, and Java. Some key differences include: * Type: interpreted vs. compiled, multi-paradigm vs. procedural, structured vs. object-oriented * Syntax: simple vs. complex * Use cases: web development, data analysis, machine learning vs. system programming, embedded systems, game development Some popular companies that use Python in their workflow include Google, which uses Python for various applications like search and more. Python is widely used in the development of various applications, including Instagram, Spotify, and Dropbox. Several prominent companies utilize Python, such as Netflix, Reddit, Uber, and Pinterest. The language offers diverse career opportunities across industries, with average salaries ranging from ₹500,000 to ₹2,500,000 per annum. Python 3.13 is the current stable release of the programming language, featuring updates to its syntax, implementation, and standard library. Notable updates in Python 3.14 include UTF-8 Mode Default, Shorthand Syntax for Keyword Arguments, Enhanced f-strings, and JSON-based Simple API. You'll study fundamental concepts such as objects, classes, dictionaries, and more, along with advanced topics like recursion, lambda, and threading in PythonForBeginners tutorial. Following the basics, you can delve into machine learning, databases, GUIs, web scraping using BeautifulSoup, and the YouTube API.

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