**Day-8  
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**About Python:**  
  
Python was conceptualised by Guido van Rossum in 1991. It is a versatile programming language used across diverse fields like web development, software creation, and scientific applications. Also known for its simplicity and readability, Python allows programmers to focus on problem-solving, resembling pseudo-code.

* Python's gentle learning curve makes it accessible to both beginners and experts, setting it apart from languages like C and Java.
* It is free, open source, and high-level, eliminating the need for explicit type declarations, contributing to its flexibility.
* Python's dynamic typing and cross-platform support enhance its adaptability.
* Python finds use in web development, software creation, scientific tasks, education, desktop GUIs, and business applications.
* Its extensibility, supporting various programming paradigms and integration with C/C++, adds to its versatility.
* The extensive Python Standard Library accelerates development, offering modules for text processing, data types, networking, and more.
* Python's built-in memory management via garbage collection simplifies programming by handling memory allocation.
* As an interpreted language, Python doesn't require compilation, ensuring portability across platforms.
* Python's evolution includes significant releases like Python 2.x and Python 3.x, with the letter introducing changes like default Unicode strings and modified division behaviour.
* While Python 2.x support ended in 2020, both versions coexist, influencing code development decisions.