📌 Python Data Types 📌

1. Integer (int) – Counting numbers 6. List (list) – Ordered collection

Fruit = [“Apple”, “Banana”,”Kiwi”]

(changeable items)

*👉 Real-life:* ***Shopping list, friends list***

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*👉 Real-life:* ***Age, money, number of items***

Age = 18

Price = 100

=

2. Float (float) – Decimal numbers 7. Tuple (tuple) – Ordered collection

*👉 Real-life:* ***National ID details (unchangeable info)***

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9erson = (“Hooria” , 18 ,”Turkey”)

(but unchangeable)

Weight = 4.5

Height = 5.1

=

*👉 Real-life:* ***Weight, height, price with paisa***

3. String(str) –Text(Words&Sentence) 8. Set (set) – Unordered, items

number= {1, 2,3,4}

(No duplicates)

=

name = “Ali”

message = ‘hello, h r u?’

=

*👉 Real-life:* ***Unique phone numbers, unique IDs***

*👉 Real-life:* ***Names, addresses, messages***

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4. Boolean (bool) – True or False 9. **Dictionary (dict)** – **Key-Value pairs**

Student = {“name”: “Hoor”, “age”: “20”, “city”: “karachi”

*👉 Real-life:* ***Contact list (Name & Number), Student record***

***(Like a contact list)***

Is\_student = True

has\_passed = False

=

*👉 Real-life:* ***Switch (ON/OFF), Is student? (Yes/No)***

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5. None Type (None) – khaali value(nothing)

Python is a **powerful and easy-to-learn** programming language, created by **Guido van Rossum in 1991**. It is used for **web development, AI, data science, and automation**. Big companies like **Google and Netflix** use Python because it is **fast, flexible, and beginner-friendly**.

result = None

*👉 Real-life:* ***Jab koi cheez set nahi hui ho***

GOOGLE COLAB

Google Colab is a **free online tool** for running Python code in the cloud. It is provided by **Google** and does not require any installation.

**Key Features:**  
✅ **Browser-Based** – Access From Any Device Without Setup.  
✅ **Free GPU (Graphics Processing Unit) & TPU (Tensor Processing Unit)** – Ideal For AI, ML, And Data Science Projects.  
✅ **Google Drive Integration** – Easily Save And Share Files.  
✅ **Beginner-Friendly** – Works Like Jupyter Notebook, Making Coding Simple.

Google Colab is **useful for learning and experimenting** with Python, especially for AI, ML, and data analysis! 🚀