# TOPICS:

1. Installation & Environment Setup
2. Data Types

#### 1. INSTALLATION & ENVIRONMENT SETUP

# to check if it is installed or not  
! python --version   
  
# to create virtual env in windows  
# ! python -m venv venv   
  
# to activate virtual env  
# ! venv\Scripts\activate   
  
# create a requirements.txt  
# to install all packages in requirements.txt -> pip install -r requirements.txt

Python 3.12.3

#### 2. Data Types

# Python provides several built-in data types to store different kinds of values. Let's break them down:  
  
# Category |Data Type |Example  
# Numeric | int |x = 10  
# | float |y = 10.5  
# | complex |z = 3 + 4j  
# Text | str |s = "Hello"  
# Boolean | bool |flag = True  
# Sequence | list |[1, 2, 3]  
# | tuple |(1, 2, 3)  
# | range |range(5)  
# Set Types | set |{1, 2, 3}  
# | frozenset |frozenset([1,2,3])  
# Mapping | dict |{"key": "value"}  
# Binary | bytes |b'hello'  
# | bytearray |bytearray(5)  
# | memoryview|memoryview(bytes(5))  
# None Type | NoneType |x = None