What is Python?

Python is a high level general purpose programming language

Programming->program->set of instructions used to perform a particular operation->+,-,/,*->calculator

High Level

types of languages

1.low level - code - complex - assembly 8086

2.mid level - easier than low level - c++

1. high level - Python -Python's syntax is as simple as like english

General Purpose

- 1.Applications desktop apps, mobile apps, web apps
- 2.game development
- 3. Automation Testing
- 4. Ethical Hacking
- 1. Data Analysis
- 2. Al-Artificial Intelligence

History:

1991 - Guido van Rossum - Fav Circus Show- Monty;'s Python Flying Circus

Installation:

1. goto python.org

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steps:

https://phoenixnap.com/kb/how-to-install-python-3-windows

Features:

- 1.high level
- 2.general purpose
- 3.dynamically typed programming
- 4. Open source freely available
- 5.python has its own set of

libraries/modules/package

data analysis graph - matplotlib

game - pygame

Variables (vary-changeable)& constants Naming Conventions: variable name must not be started/contains with/ number or any other special character other than _

Data Types:

number - int , float(decimal),complex number(a+bi)

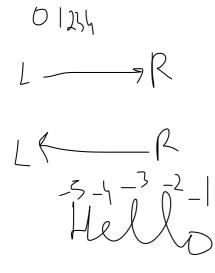
String - "hey...."

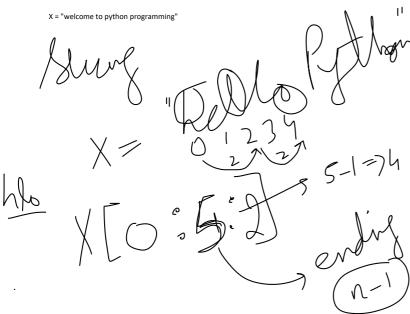
Boolean - True/False

None - Blank

String - String is Python's

immutable(cannot be changed) Data Type Indexing X = "Hello"





X[starting:ending(n-1):stepsize]