

What is Python ?

->Python is a Computer Programming Language.

Features of Python ?

->Python is a High Level Language->Python is easy to learn and use.because its syntax is just as like English.

Programming->

1->low Level Language

->its code is very complicated to learn and use.

2->Mid Level

Language->it is easier than low level language.

3.High Level

Language->its syntax is easier

->General Purpose

Programming->

->Software

Development,Website

Development, Game

Development, AI(Artificial

Intelligence->Robot's

programming->Python)

->Python is Dynamically Typed
Language

->Dynamic->which
changes its property time to
time.

Python->decimal Number-
>floating number

Python is an Interpreted language

interpreted -> Interpreter
Compiler

-which execute the whole program at once

Interpreter -it executes the program line by line

Python is a Multi-paradigm language ->

multi-paradigm ->

it is the combination of 3 programming concepts

1->Procedural Programming

2->Functional Programming -> functions based Programming

3->OOPs->Object Oriented

Programming -> (class, object)

History of Python ->

Who invented Python -> Guido

Van Rossum -> 1989

Why he named his
programming Lang. as
"Python"?

-> because he was highly
inspired by a show "Monty's
Python Flying Circus"

Data Types ->

Number -> int, float(decimal
no.), complex number

String -> 'hello', "Hey", """ Hello
Everyone """

Slicing ->

If stepsize -> positive -> end-
>n-1

If stepsize->negative ->end-
>n+1

Boolean -> True/False

Python data Collection ->

- List

- Tuple

- Dictionary

- Sets

Decision

Making,Loops,Functions,except
ions,File handling.....

Rules for variables->

- variable cannot be started with numerics value

- no special character in the variable name

- No space in variable name, we can use "_" instead

$x=1$

$y=1$

$z=3$

$\text{number1} = x + y + z - 2$

$\text{Number2} = x/y + z/y$