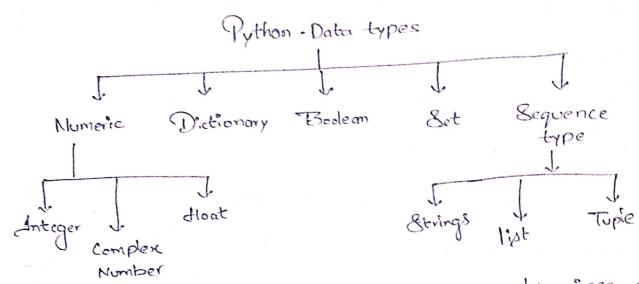
1 What the data types in python ? Explain?



* Data types represent a kind of value which determines what operations can be performed on that data.

Numeric ?- It is any representation of data which has a numeric value.

* Anteger: - Positive as Negitiere whole numbers

* float :- Any real number with a floating point representation in which a tractional component is denoted by a decimal symbol on Scientific notation.

* Complex number :- A number with a real and "maginary Component represented as xtij. x and y are dlocats and j is -1 (Square root of -1 Called an maginary number)

Boolean: At has two built in values true on dalse,

Sequence type: At is an ordered collection of Smilar ord

estring: At is a collection of one on mone characters put in Single, double on triple quotes.

- a list !- It is an Order collection of one on more data items
- Dictionary: It is an unosidered collection of data on a key:

 Value pair dorm. A collection of Such-pairs is enclosed in

 Curly. braces 6x: [1: "Steve", 2: "Bill"]

2 Briesty Explain hystory of python?

Python was Conceived in the late 1980s by Guido Van Rossum and developed by python software Foundation. At was mainly developed for emphasis on Code readability and its Syntax developed for emphasis on Code readability and its Syntax allows programmers to Express Concepts in Jewer lines of

The programing language which python is said to have succeeded in ABC programming language.

The inspiration for the name Came from BBC's To show "Monty python's Flying Circus.

The language was finally sceleased in 1991. At uses a lot dewer codes to express the Concepts, when we lot dewer codes to express the Concepts, when we compare it with Java, C++ &c. Ats desigh Phylosophy was too good.

The main objective is to provide code redeability and advanced developer productivity.

and the			
Ć	Operator	Description	Syntax
36	+	Addition Adds two	X+Y
		operands	
	-	Subracts -two operands	X- y
	e k	Multiplies two operards	X *Y
2	/	float: Divides the first operan	d x/y
£		by the Becond	
r	[1	floor: Divides the first opera	and xlly
		by the Second	
•	·/:	Modulus: returns remairde	er x/ky
		Power: Returns direct raised	XXXY
,		to power second	
	Relational 6		
	> ,	Greater tran	2.47
		Equal to	x==Y
1) =	not equal	x.l=Y
	7=	greater than equal	хүэУ
	logical ope	erador:	
	and	True if both the	ne and y
		Operands are true	
<u>naite</u>	Ø81	True it either of the	x 0314
		operands is true	
	not	True if operand is tals	e protic

Bitulise	Operators 1-	

X SY Bitwise AND ZIY Bitwise OR 10-Y Bitcuise NOT Bitwise xor ZMY Bitwise rightsillt 77 · X >>

Assighment Operators:

Assigning the values = X = a+b from right to ledt 4= leff sige operand and a+= 6 then assighn to ledt a=a+b ct = multiply a *b and assigh a* = b a=a+b to a -= Subract a-b and assigh a -= b a = a - b to a /= Dirède alb and assighn a/= b to a asalb 4. = Modulus of all b and applyin alish toa a= a/16 Perdorm also and assighn als = b g = azalb 77 = right Sight a>>= 6

a =aybb

4 Explain the deatures out python?

Copressive languages 1- understable and readable Anterpreted language: Debugging is easy

Cross platdorm language: - portable language, it can run equally

dice and open source: At is dreely available at official web address.

Object Oriented language: At supports Concepts Ot class and Objects come anto existence.

Extensible: - At Pimplie's that other languages such as C/C++ Cambe used to compile the code.

GiuI Programming Support i- It can be easily integrated with languages like C, Cff, java

Integrated i Graphical user finterfaces can be developed using python.

Tustify why python is interactive interpreted language?

Rithon is an interpreted object oriented programming language. The interpreted it meant that each time a Program is run the interpreter checks through the cade dor errors and interprets the instruction into machine readable bytecode.

It is a translator in Computers language which translate the given code line by line in machine readable bytecodes it any error encountered it stops the translation until the error is theed.

Anteractive python is very much helpful for the debugging purpose it simply return the xxx prompt for the Corresponding output of the statement is appropriate and returns for incorrect states.

Within Second you can find errors in python, debugging the error is easy.