1) What one the datatypes in Python?

(A) Datatypes in Python one;

Integer-Positive or negative whole numbers (without fractional Part)

Float-Any oreal numbers with a floating Point Diepresentation

Complexnumber in which a fractional component.

Complexnumber-A number with oreal & imaginary

component Depresented as & tyj.

Boolean - Data with one of two built-in values true or False. Notice that 'T' and F' one capital. true and false one not valid booleans and Python will throw an error forthern

Builtin Functions: Math Type Conversion, Herables and Herators. Composite Datatype, classes, Attributes and Inheritance, Miscellan eou.

- @ Briefly Explain history of Python?
- Python has become one of the most interesting programming language of own time. It was concieved by guido van Rossum at CWI in neitherlands during the Van Rossum at CWI in neitherlands during the late 1980's. The Most Amazing Story is that creature late 1980's. The Most Amazing Story is that creature late 1980's. The Most Amazing Story is that creature late 1980's. The Most Amazing Story is that creature late 1980's the Most Computer. His office was closed Python using solely his computer. His office was closed Python and all he had was simple machine and his brilliant an

Sketch comedy series "Mouty Python's Flying circus" as tounding tother was a big fan. New Python Succeeded in neleasing the new major version, Python 3.0 in 2008, and tollowed by upcoming versions.

- 3 Explain all the operators in python?
- Arithematic operators: cused to perform common mathematical operations. They are,

operator	Name	Example
+	Addition	8+4
*	substraction multiplication	x-y x*y
1	division	Rly
7.	modulus	27.4
**	Exponentation	X**y
1/	Floor division	X11 y

1 Assignment operators: To assign values to variable

3 comparisonopo	+ tors +			
		x ==y		
= =	Equal	R!= y		
) =	not equal	1/4		
>	greater than	ncy		
2	greater than equal to	スプニダ		
>=	less than equal to	WL=Y		
L=	les than Chart			
9 Logical operator				
operator	Description	Example		
and	Rotuins true if statement is true			
Or	Returns true i 1 one statem			
not	Reverse the result if the	not (ncs)		
(5) Identity operators				
operators	Description	Example		
25	Returns true it both variables are same object	r is y		
is not	Returns true if both Volumbles obe not some object	se is not y		
@ Python member	ership operators			

1	
i	S
- 11	٠,

Returns true if sequence with specified value is present in object

r ing

not in

Returns true if the specified value is not in Object x not in y

1 Bitwise operators

operator	Name	Example
&	AND	280 y
1	OR	xly
~	NoT	xny
>>	Lett shift Right shift	xxxy

@ Explain features in Python

Python is a dynamic high level, tree of Gource and interpreted programming language. It supports object object object programming of well as procedual oriented programming. In Python, we don't need to declare the type of Variable because it is a dynamic typed language.

Features in python ;

- 1. Easy to code
- 2. Free open source
- 3. Object oriented language
- 4. GUI Programming support.
 - 5. High level language
 - 6. Extensible teature.
 - 7. Python is portable language.
 - 8. Python is Integrated language.
 - 9. Interpreted language etc.
- 5) Justify why python is interactive interpreted longuage
- (Py) files one run in python interpreter. Interactive mode is a command line shell which gives immediate feed back for each statement, while ourning previously feed statement, in active memory. As previously feed statement, in active memory. As new lines one feed into the interpreter is the feed new lines one feed into the interpreter is the feed program is evaluated both in part and in whole.

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