- Q.) Write the data types in Python? Explain Any The different data types that are used in Python are int. float, complex, list, tuple, string, set, dictions, and boolean.
 - 1 Integers, floating point and complex numbers fall under Python Numbers category. Since everything is an object in python, data types are actually classes and variables are instances of these classes.

int examples: 2,3,4,5 etc

float examples: 2.0,3.0,4.0 etc

Complex examples: 2+3j, 4+5j etc.

In python entegers can be of any length and floating point number is allowed up to 15 decimal places.

- (2) List is an ordered sequence of items that is most used data type in Python. All the items in a list do not need to be of same type. example: a= [1,2.2, 'python']
- 3) Tuple is some as list but the only difference is that tuple is immutable, i.e., they can not be modified.

ex: t= (5, 'program', 143)

- (i) Strings are a squence of unicode characters which can be written in style or double quales. example: S: This is a string!
- Dictionary is an unordered collection of key value pairs.

 example: d: f 1: 'value', 'key': 2?
- (Boolean returns only true or false values. ex: a = 2 > 2 Print (type (a)) # False
- Q.2) Briefly explain history of Python.
- And Python is widely used general purpose, high level programming larguage. It was intially designed by Guido Van Rossum in 1991 and developed by Python Software Foundation. Its main objective is to provide code readability and advanced developer productivity. For various purposes such as developer productivity, for various purposes such as developing, scripting, generation and software testing this larguage is utilized Python was named after monty bython's flying Circus", a BBC comedy series from the 1970's.

- Q.3) Explain all the operators in Python?
 - Ans) There are 7 categories of operators in pythen
 - · Python Arithmetic Operator
 - · Python Relational Operator
 - · Pathon Assignment Operator
 - · Python Logical Operator.
 - · Python Membership Operator
 - · Python Identity Operator
 - · Python Bitwise Operator.
 - -) Arithmetic Operators

These include operators makendo for basic mathematical

Example: +, -, *, 1, 11, 0/-, **

-> Relational Operator

These carries out the comparision between operands.

Example: < 1== 1>1>= 1<

Assignment Operators

These are used to assign a value to a variable. Examples: = , += , -= , x= , /= , xx= , 0/0= , //=

-> Logical Operators

These are used to combine more than one condition

Examples: and, or, not

D Idealthy Operators

These operators lest of the temp operands share on ordentity.

Exemples is, is not.

> Bitwise Operators to

These operators operate bit by bit on the operands.

Examples: AND(2), OR(1), YOR(1), <<,>>

- Q.W) Explain the features of Rython?
- And Python is a dynamic, highlevel, interpreted programming larguage. Some of its features are:
 - O Python is easy to code compared to other languages like C, Ctt, jova etc.
 - 1) Python is on object oriented larguege
 - 1) Python supports hus programming.
 - (Python is a high level larguage
 - 3) It is also an extensible language.
 - (6) Python has large standard library which provides nich set of module and functions so you don't have to write your own code for every single thing.
 - (2) It is a dynamically typed larguage.

- 0.5) Justify why python is interactive interpreted larguage
 - And Python is an interactive interpreted larguage because python code is executed line by line at a time. Like other larguages c, c++, jeva etc there is no need to compile python code, this makes it easier to debug our code. The source code of python is converted into an intermed immediate form collected bytecode.

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