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D Explain Ha data type in Play Python ? Explain:

5 TYPES They we

- 1) Numbers
- string 0
- (3) List
- Turle
- 3 dictionary.
- D Numbers , Numbers Stogle numeric values. Python Creates number objects when a number is assigned to a variable Python Supports four types of numeric datas
  - (i) int
  - D long
  - 3 float
- @ string: it is defined as a sequence of charactels greggesented in the quotation makes. In paython, use canuse Single double or triple quotes to define a String
- Similar to overy inc. However, the 1 List 1 Hatt is list can contain data & different types. The items Sto Sted in the list are separated with a Command, and enclosed within square
- 4) Tuple = it is similar to the fist in many way, like lists tuples also contains The Collection of the items of diff data chapes. It is Seperated with a Commas & enclosed with Pounthes

It is a read any doctor structure as we can't modify The size and value of the items of a taple.

Dictionary it is an andered set of key walle print items it is like an ancociatione around on a host table where each key stones as pecific valve.

Callera Mary Mary

Briefly explain history of Python

The programming language python was BoCoxceived in the late 1980s

and its implementation was started in December 1989 by Graido unarrassum

at cur in the Nettorland as a successor to ABC Capable of

exception handling & interfereing with the Amoeba operating syste

Python was named by the BBC To Show Monthly python's Flying

Cinces.

Python 2-0 was geolev geleased on at 16,2000 with mayor new features, including a cycle detecting geombark Collector for memory management & support for unitode.

Python 3.0 a major backwards in conpatible release way teleasel on Dec 3,2008 after along period of testing. Lung of its major teatures have also been back portal to back ward. While be now unsupportal opportal of E2.7.

- (3) Explain all the operators in Python

  (akulations)

  (Anithemic operators: It Perifor various arithmetic Cakulations

  (ike addition, Subtraction, Multiplication, divisor, modules, etc.

  These are various methods for arithmetic Calculation in python like you

  can use the function, declare variable of Calculate a call Functions
- O Confortsion operators: These operation Compare the value oneithy
   Side of the operators € obtaining the relation between them. It
   also gentleved as relational operators. Various comparison operators
   were l== ,! = , <>, >; Cetc).

- 3 Assignment operator: It is used for assigning the value of the gright to the left operand various assigned. Operators are used in Python one it = 1 == , \*= 1>)
- Degical operator: In python are used Dr conditional.

  Statements are true or false logical operators in python
  or AND, OR & Not , befor logical operators following conditions
  are applied
  - . AND O peraton: It greturns TRUE; f both the operand; are true

    OR operaton: It returns True; feith of the operand is forge.

    NOT ap onoton: It returns True if operand is false
- Demonshin operaton! These operators test for sembership ing Sequence such as lists, strings or taples, Tere or too memberships operators in python (in, notin). It gives tresult boxolon the voliable present in specified sequence ors tring.
- 6 identity operator: To compage the memory location of two objects, blentity operators are used the two identity operational Cis, isnot
- @ Explain the features of python.
  - D'Easy to learn & use!

    Python is easy to learn & use. It is developed. Friendly highlevel programming language
  - DEX Pressive language;

    Python language is more expressive means that is more undrabandable & greatable

- 3 Intorneted language:
  - It interpreter executes the Code line believe at a fine. This makes delagging easy & thoresuitable For beginner
- Q Cross platforn lagger larguage!

  After con run equally and ifferent platfors such as windows.

  Python con run equally and ifferent platfors such as windows.

  Inux, whin & mainteshete- so, we can stay that pythonis a potable language.
- Python language is freely available at officed wheb address.
  The some cole is available. Therefore it is opensonsice.
- 6 objects oriented language!

  Python supports object oriented language & concepts of
  dasses & objects Come into existence.
- Tt provides rich det of modell & functions fol Topial
  application development
- (B) Gul PAOPSTOGRAMIN Support.

  Graphical User interfere Can be developed by using Python
- (9) integrated.

  It can be easily integrated with languages like Cichi JANACKE
- Tustity why python is to interactive interpreted language on like clott etc., python is an interpreted object oriented programming language. Unlike clanguage which is a compiled programming language. The compile translats the whole code in one—go grather than line—by-ling. This is the greson why inc Junguage all the even wo listed during comple

Python is farintuative. When a Pythonstatements is entorced and is followed by the Peturn Key; fagpropriate the secultaring Printed on the sescreen; immediately ing the peut ling intractice python is very much of height for the debugging Purpose. its imply return the >>> prompt or the corner ponding act put of the Heaterment it appropriate and returns erron for incornet Stetements.