Assignment

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- 1. what the datatypes in python? Explain.
- Number: Number datatypes store numeric vales number objects are created when you assign a value to them.

 ii. Strings: String in Python are identified as a contiguous set of character represented in the quotation marks Python allows either pair of single or double quotes python allows either pair of single or double quotes iii. Lists: Lists are the most versatile of python compound data topes A list contains items compounds separated
 - data types. A list contains items compounds separated by commas and Enclosed within square brackets.
 - iv. Triples: A triple is another sequence data type that is similar to the list. A triple consists of a number of values separated by commos unlike lists, however, triples are enclosed with parenthesis.
 - v. Dictionary: Python's dictionaries are kind of hash-table type. they work like associative arrays or hashes.

 Jound in perl and consist of key values pairs. A dictionary key can be almost any python type, but are usually number or strings values, on the other hand can be any orbitary python object. Dictionaries are enclosed within only braces.

- 2. Briefly explain history of python?
 - -> python is a general purpose interpreted interactive,
 object oriented, and high level programming language
 - -> It was created by "Gruido van Rossum" during 1985-1990
 - -> Python is nomed after a TV show called "monty python's flying circus" and not offer python the snake.
 - 3. Explain all operators in puthon?
 - -> when more than operator appeals in an Expression the order of Evaluation depends on the rules of precedence PEMDAS order of operation is Followed in python.
 - -> parentheses have the highest precedence and can be used to dorce an tapression to Evaluate in order you want.
 - -> Exponentiation was the next highest precedence
 - -> Multiplication and division have the same procedure which is higher than.
 - -) Addition and Subtraction which also have the same precedence.
 - -> operators with some precedence are Evaluater from left to right.

- 4. Explain Features of python.
 - -> features of python
 - 1. Simple
 - 2. Easy to learn
 - 3. Free and open source
 - ". High level language
 - 5. Python is Beginneri language
 - 6. portable / plat form independent
 - 7. Interactive
 - B. Interpreted
 - 9. objected oriented
 - 10. Extensible
 - 11. Embeddable
 - 12. Extensive (ibories.

5. Justify why python is interactive interpreted language -> python is interactive

You can actually sit at a python prompt and interact with interpreter directly to write your programs Python is objected oriented. Python supports object oriented style or technique of programming that the psulates code with object.

-> pathon is interpreted

Onlike c/c++ e+c, python is interpreted object oriented programming language. By interpreted it is meant that which Each time a program is run the interpreter check through code errors.