Assignment Nome: By Thonoush a Poll No: 3,0191030100 \$

Bedionis.

1. What the data types in python ? Explain

1. Number: Number data types store numeric values. Number objects are cheated when you assign a value to them.

a. Olvings: Blvings in python are identified as a configuous got of chaladels represented in the quotation malks. Python allows without pail of single or double quales.

3. Lish: Lish ale the most volsatile of Python's compound data types. It list contains items seposlated by sommas and enclosed within

4. Tuples: A tuple is another requerce abla type that is similar to the list. A tuple consists of a number of values esperated by commas. Unlike lisk, however, tuples are enclosed with

5. Dictionaly: Rythoris dictionaries are Kind of hash-table type. They work like associative arrays of hashes found in Poll and consist of Key values paids. A dictionary Key can he almost any Rython type, but are wouldy numbels & strings. Values, on the other hand, can be any arbitary python object. Dictionaries are enclosed within ourly braces.

2) Briefly explain history of Rython.

-> Python is a general - pulpose interpreted, interactive, object-oriented, and high-level programming language.

-) It was cleated by "Guido van Rossum"

during 1985 - 1990.

-) Python is named after a TV show called

Monly Python's Flying Circust and not after

Python- the snake.

3) Explain all the (Opelations) Opelators in

-> When more than one opelator appeals in an expression, the order of evaluation depends on the rules of precedence. PEMPAS order of operation is followed in

-> Palentheses have the highest precedence and can be used to force an expression to evaluate in the order you want.

-> Exponentiation' has the next highest precedence.

-) Multiplication and Division' have the same precedence, which is higher than.

-> 'Addition and Substraction', which also have

the same precedence.

-> 'Opelators with the same precedence' ale evaluated from left to right.

4) Explain the features of python.

Featules of python

- -> Simple
- -> Easy to Lealn
- -) free and open soulce
- -> 1-tigh- level language
- -> Python is a Beginnely Language
- -> Portable (Platform Independent)
- -> Interoclive
- -> Interpreted
- -> Object Oriented
- -> Extensible
- > Embeddable
- Entervive Libraries.
- 5) Julify why python is intellactive intellpreted language

Python & Intelactive:

you can achially sit at a Rython prompt and interact with the interpreter directly to write

Rithon is object-ordiented- Python supports Object-Oriented style or technique of programming that encapsulates code within objects.

Python is Intel preted!

Unlike clc++ etc, Python is an interpreted object-oriented programing language. By interpreted it is meant that each time a program is run the intellepretel checks through the code for errors and then interprets the instructions into machine-readable bytecode.