Python Programming Assignment - 2

- O what are the datatypes in python? Explain
- D'Intéger: positive or negative unhole number Curithout a tractional part) are the integer datatypes
- 6 Float: Any real number with a floating point representation in which a fractional component is denoted
- Oconpuse number: A number mitt real and imaginary component repres -uted as x+yi, x & y
- @ Bookan: Data mith one of built in values True or false. Notice that Tor F.
- Estring: A string value is a collection of one or more characters put in single, double or triple quotes
- Dist: A list object is an ordered collect of one or more data Hems not necessarily of same type.
- 9 Touple: A touple object is an ordered collection of one or more date items not necessary of same typent in parenthesis

(2) Briefly coplain the history of python python was created by Guido Ran Rossum in 1980 to 1990. He was a member of the national research institute of nathematics and computer science. It is as a response to the ABC programming language that was also foregrounded in netherlands. Among the main from main features of python compared to ABC language was that rython had exception hardling and was targetted for the Amorba 0:5

(3) Explain the operators in python 7 Arithmetic operator: Addition, Subtraction multiplication, Division modulus, Floor division -> Relational operator: <,>,<=,>=,!= -> Assignment operator: = ,+= ,-= ,/= ,*= ,*//= -> logical operator: and, or, not -> membership operator: in, notin -> Identify operator: is, is not -> Bituise operator Binary AND (4) Binary OR (1) Binary xOR (1)

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Explain the features of rython

Fasy to code

Free & open Source

Object oriented language

GUI programming Support

High Level language

Extensible Feature

Nortable language

Theoretical language

Theoretical language

Theoretical language

Starge Standard library

(5) Justify why python is interactive interpreted language

Unlike C/ctt etc, python is an interpreted language & also an object oriented language & also an object oriented language. Unlike C language which is Compiled programming language. The compiler translators the whole code in one go rather than line-by-line. This is the reason why in C language all the cross are listed during compilation only.