- 1) What the data types in python's Eiglain.
- 1. Python data types.

Data types are the classification or categorization of data Eterns. It represents the kind of value that tells what operations can be performed on a porticular data.

- 1) Aumeric: I don't world with try watered were
- A numeric value is any representation of data which has a numeric value. These values can be integer, fronting or complex numbers.
- + Integra: positive or negative whole numbers without a
- * Float: Any real number with a floating point represents in which a fractional component is denoted by a decimal symbol.
- * Complex number: A rumber with a real and brigginary component represented as x+y3. where x & y are frosts and I is -1.
- 2) Bodean: Data with one of two built in value

9. 61 True (00) falte then T & 1 me captal . Em letter t and f are not will become and gython of -three on green for them; 5) Dequence type: - A Sequence to an estored collect of Similar or different data types. It has bleady built in data types * String: - A String value is a collection of one or more characters put in single, double or triple just * List: - A list object is an ordered collection of one or more data stons, not necessarily of the same type, put en (pasentheses) Square brackets. * Tuple: - A tuple object is an ordered collection of one or more data thems, not necessarily of the same type put in parentheses. 4) Dictionary: - A dictionary object is an unordered collection of data in a key value pair form. A collection of Such points is inclosed by curty brackets. 1 Beierty explain the history of python. A. Python is an interpreted, high level, general purpose programming language.

It was created by "Guido van Rossum", during 1985-1970.

Python is named after a TV Shows called Monty

Python flying circus and not after the python the

Snake. It was mainly developed for Emphasis on code

readability and its Syntax allows programmers to

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Python 2.0 was released on october 16, 2000, with many major new features, including a cycle-detecting garbage collector for memory management & Support for unicade. The most change was to develop itself, with a shift to more transparent and community-backed process.

- 3) Explain all the operators in Python.
- 4. Operators in Dithon our: -
- (i) Arthmetic operators: -

Arthmetic operators are used to perform mathematical operations like addition, Subtraction, multiplication etc.

11/ C - (C ... 1/

\$x: -1+1, -1 *, 1, 1, 1, **, 11

(ii) Comparison operators:

These are used to compare values. It orthorns Ether
True or false according to the condition.

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(111) Logical operators.

kegical operators are the end, or, not operators.

(in) Between operators acts on operands as if they were strings of binary digits. They operated by by home

Ex: - k,1,0,1, >>, 42

These are used in python to assign values to variables

Ser: -=, +=, -=, +=, /=, 0/n=, 11=, **=, k=,

1= , N=, >>= , KK=

(vi) Spicial operators:

Python language offers some special types of operators
like the indentity operator and the membership operator.
These are described below.

Identity operators:

"98" and "mot" are the identity operators in python.

These are used to check if two values (or variables) are located on the Same part of the memory. Two variables that are Equal does not imply that they are identical. Membership operators: -" in" and not in" are the membership operators in python. They are used to test whether a value or variable Es found en a Sequence. (string, lest, tuple, sit & Le Horary). 4) Explain the features of python. A. Python is a dynamic, high level, free open source and Extre preted programming language. Et Supports objectoriented language programming. Features in python: 1) Easy to code . wholed stakes who c e) free and open source 3) object - ocentred larguage H) GUE programming Support 5) High-level language 6) Extensible feature 7) Python 83 portable language who was tem

1) Python to Integrated language 9) Sologodis larguy 10) Large Hundred Electory 11) Dynamically typed language of Justily why figther be intermedian interpreted language A. Enterproted pythonis. vallete Clari CFF deco pothers & an Enterpretal ortated programming language. By Extrapolice 16 15 ment that each three a program to non the liberary checks through the cade for small and then theren the Englishment forter meeting - weekele to the conte the Enterpretor & a foundation by Computers language which tourslates the giver code the to be madde madable beforcades. And it my boom is brown the star the boughton with the own to fail Unlike a language, which is a compiled programming language. The complete translated the whole cake to one-go nother than the-by-thre. The to the weeken thy in a language, all the enous one listed during Completion only.