## Python Assignment-2

- O what are the data typer in python? explain.
- Data type are the classification of categorization g data items. Data type supresent a kind g value which determine what operations can be responsed on that data.

Python has the following standard & built-in data types:

## Numotic

A numblic value is any representation of data which has a numbric value. Python identifies, those types of numbers.

- -> Integère: positive on negative whole number.
- Thoat: Any seal number with a floating point supersentation in which a foractional component is denoted by a decimal symbol & scientist notation
  - -> complex number: A number with a seal and imaginary component grapsorted as X+xi.

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Booremi pata with one of two built-in values true or false. Notice that I and I are capital. Jule and false alle not valid bodeans and python will thosow on onthe for them

- storing: A storing value is a collection of one or more charectore put in single, double a triple
- -> List: A list object is an added collection g one a more data items, not necessarily g the Same type, put in square bracket
- -> Tuple: A Tuple object is an adad is an g one a more data items, not necessarily of the Same type, put in parentheses.

## -> Dictionaly.

A dictionary object is an unordered collection of data in a Key: value paigr fam. A collection g Buch paise is enclosed in carly bracks,

America quality in the

@ Briefly explain history of Python.

pupose programming. Oceated by Gruids van Rossum and first scaleased in 1991, Pythotis design Philosophry emaphasies code scadability with it notable use g signifan whitspace.

Python was conceved in the late 1980s as a successed to the ABC language. Python 2.0, Incleased in 2000, intereduced features like list comprehensions, and a garbage collection system with reference counting.

T) Python 3.0, stealsed in 2008 was a majorisevil of the larguage that is not completely backward - compatable of much python a code does not sum unmodified on Python 3.

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3 explain all the operation in python. compatison and logical operative in python. Assuming that x=10, and y=20, the result of the operation in also given table. > > Town if the left operand is >>>x>y than the night one false. True if the operand is >>> x< Lower than right one Tous True if the operande = = de equal >>>x == x false Tous if the operands de 1 = >>> x!= y not equal True. Touce if the left opendis 7= >>> X7=y higher than or equal jalse. to the gight one Town if the lost opened >>> x <= y is down than It equal Tous to slight one

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Logical operative True if both de toue >>>x and x and False. Town if at least one is 81 >>> xa foul Tave. Itetians Tout if an not expanssion evalutes to >>>uq x false and vice-velsa false.

explain the feature g python.

- O easy to learn and use.
- 2 expressive larguage
- 3 Interpreted larguage.
- (4) coross-Platjorn Larguage.
- 5) Face and open source
- 6) Object Stiented language
- 7 extensible
- (8) Longe Standard Liberary
- 9) Gur