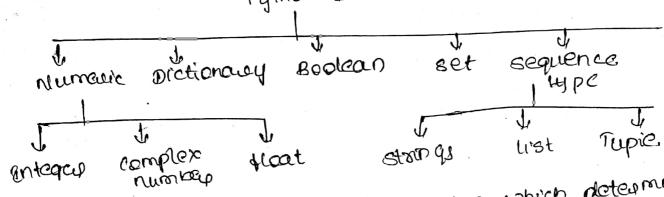
PYTHON ASSIGNMENT

E. Pacethi 3218103040<u>7</u>3 By CSE 19-06-2020

• what are the data-types in python? explain?

Python-Data types



* Data type represent a kind at value which determines what openations can be parforemed on that dota.

-Numeric: - It is any representation of data which has a num ever value

- integer: Positive of Negatire, whole numbers
- -float: Any real number with a proating point representation in which a fluctional component is denoted by a decimal
 - complex numbaes: A number with a real and imaginary component appresented as 249j, or and 4 auc floats and j is -1 csquare deat of -1 could an imaginary number)
 - Bookan. It has two built to values have one false.
 - 7 & f are capital
 - sequence type: It is an ordared collection of similar or different data types
 - sherg it is a collection of one one more charactery put in singre double or triple quotes

- * list Et is an order collection of one or mare data stem. put in square brackely
- * Dictionary: It is an unaedared collection of data in a key value pair poin. A collection of such paires is enclosed in unely blaces

Ex:- { 1: "stere", 2: "Bill"}

2. Briefly explain hystory of python?

Python was concerned on the late 1980s by Cieride war kessum and developed by python software foundation. It was mainly developed for emphasis on eade readability and its Syntax allows programmals to exposer concepts in fewer lines of code.

The peagramming longuage which python is said to

have succeded in ABC programming language. The inspiration for the name came by from BBC's

The show " Monty Python's flying ciacus.

The language was sinally recleased is 1991. St uses a lot pewer codes to express the concepts, when we compare of with Janua, C++ & C, gts design phylosophy was 100 good.

me main objective is to provide code readeablity and advanced developer productivity.

3) Explain all the operations in Python! syntan operator sexuiption + Addition, Adds two operande subheacts two 20-4 operan di

multiplies two openlands x * y * proat: divides the fiest 2014 operand by the second floor: phide the ciest operand x114 11 by the second Modelus actuals remainder 27.4 power: Returns firest raised to 2** 4 power second Relational operators greater than x>4 equal to 2 2= y not equal xizy ! = > = queater than equal xx=4 legical operator: never is both the operands x and 4. and are here There is either of the schooly x ony 20 operande & here not x not never operand is false Bitwise aparatores x 24 Bitwise AND P 214 pitaise or 25 Bitwise NOT

 $\alpha \lambda Y$

Bitwise XOR

ځځ

Bitcoise nightshift xxy

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, Assignment operators
           Assigning the Nature from eight
                                             X=0+b
    =
            to left
           left side operand add then assigned at = b
   + =
            to lest
                                              acatb
          meltiply at b and assign to a
                                           ax = 5
   * =
                                            a = axb
         subreact a-b and asign to a
                                           a-26
                                           \alpha = a - b
          oficial all and assign to a
    1 =
                                           al 2b
                                           a = alb
   of z modules of a of and assign
                                         arlieb
                                         a=a%b.
              to a
   4 = partarm arb and assign to a
                                            a fib
                                            azalb
         eight sight
   >> =
                                          azzzh
                                         a= asy b
 Werplan the features of python?
A: 1) tasy to teach and use
  2) Expressive languages: un deestables and readable
  of entappreted language: Debugging is easy
  u) creu platoum language: postable language, it can
                           een caucally on different
```

platfooms

existance

official web address

class and objects come into

stree and gen source: it is freely available at

6) object beiented language: Et supposer concepts

- Hextensible). It implies that other languages such as clott can be used to complete the code
- 8) GUZ peogramming supposed: It can be easily integrated with languages like c, C++, jones etc
- 9) in tegrated: graphical uses intespaces can be developed using python
- Distify why python is integratible interpreted language Python is an interpreted object asiented programmity language. The interpreted it means that each time a Regeam is sun the interpreter cheeks through the cade for access and interpreter the instruction into machine seadable bytecode.

It is a manslater in computate language which translates the given code lune in machine recardlative type codes if any essas encountered it stops the manslateron until the essas is traced.

interactive Python is vary much helpfull for the debugging purpose. It simply welling the >>> prompt for the consesponding output at the statement is appropriate and actuars too incorrect statements.

within second you can find account in python, debugging the account is easy.