ASSIGNMENT-02.

1) what are data types in python? explain

→ Integer: positive or negative whole number are the integer data types in python.

→ Float: Any real number with a floating point represent in which a fractional component is divided by a decimal symbol or scientific not -ation.

→ complex number: A num with a real and ima -ginary component represented on x+yi, x and y are floods and j is -1

→ Boolean: Data with one of an two built in- values True an false value that T an F are capital true an false are not valid becaus -e python will throw an error for them.

→ String: A string value is a collection of one or more characters put in single, double and triple quotes.

→ list: A list objects is an ordered collection of one or more data items not necessary of the same type put in square brackets.

→ Tuple: A type object is an ordered collection of one or more data items not necessary of the same types put in paranthesis.

2) Explain briefly the history of python?
python was created by guido von
Rossum in 1980 to 1990. He was a memb
-er of the national science research institute
of mathematics and computer science idically it
was designed as a response to the ABC pr
-ogramer language was that python had
exception handling and was targeted for
ameoba operating system the name python
is named from the British. The show
monthly is python 90 addition to exceptor
handling python included classes lists and
string.

3) Explain operators in python:

→ Arithmetic operation: are addition subtraction
multiplication. Division. floor division. module.
exponetion

→ Relational operators : <, >, <=, >=, ==

→ Assignment operators: +, -, =, -=, *=, /=
$\Pi =$, ** = 4=, /= ^= , >> = << =

→ comparison operators : == !;= , > , < '<=>:

→ logical operators: and, or, not

→ membership operators: in, not, in

4) Explain Features of Python?
      Easy to code
      Free and open source
      object oriented language
      GUI programing set
      High-level language
      Extensible Feature
      python is portable language
      python is integrated language
      large standard library
      Dynamically typed language.

5) justify why python is interepted language
      while c/c++ etc. python is an itrepreted
object oriented pragaming language The compiler
which is a compiled pragraming anguage. The
compiler transmulates the whole code in one go
rather than line by line. This is the reaso
-n why in C language all the errors are
tested during compilation only.