

Assignment - 2

What are the data types in python? Example

Integer :- Positive (or) negative whole numbers are the integer data types in python.

Float :- Any real number with floating points represent in which a fractional components is denoted by a decimal symbol. or

Complex numbers :- A num with real and imaginary components represents as $x+iy$; x and y are floats.

Boolean :- Data with one of two built in values true or false are not valid boolean and Python will throw an error for them.

String :- A string value is a collection of one (or) more characters put in a single double or triple quotes.

List :- A list object is an ordered one or more data items, not necessary of the same type put in square brackets.

Tuple :- A tuple object is an ordered collection of one or more data.

Briefly Explain the history of python?

Python was created by Guido van Rossum in 1980 to 1990. He was a member of math and computer sciences, initially it was designed as a response to the ABC programming language so that python has extension.

Explain operators of operation.

Operations of python are

- * Arithmetic operators are $+$, $-$, $*$, $/$, modulus, Exponent
- * Relational operators $<$, $>$, $<=$, $>=$, $=$, \neq
- * Assignment operators $=$, $+=$, $-=$, $*=$, $/=$, $//=$, $+=$
- * Logical operators and, or, not
- * Member operator in, not in
- * Identity operators is, is not
- * Bitwise operators Binary and (B) Binary (A)
 $\&$, $\<<$, $\>>$

④ - Explain features of python ?

- easy to code
- free and open source
- object oriented language
- high level language
- extensible - features
- portable language
- integrated language
- large standard library.

⑤ Justify why python is interpreted language ?

Unlike C/C++ python is an interpreted object oriented programming language. The compiler which is compiled programming language. The compiler translate the whole code rather in C language all the errors are listed during compilation only.