Python Workshop Assignment - 2

What are the datatypes in Python? Explain

Integer: Positive or negative whole numbers (without a fractional post) are the integer datatypes in python Float: - Any real numbers with a floating point representation in which a fractional component is denoted by a decimal symbol or scientific notation.

Complex numbers: - A numbers with a real and imaginary component represented as x+yi, x and y are floats

component represented as x+vi, x and Y not floats and j is -1 (square root of -1 called an imaginary numbers)

Boolean: - Data with one of two built-in values True or False. Notice that 'T' and 'F' are capital true and false are not valid booleans and python will throw an croos for them

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

more data items, not necessarily of the same type, put in square brackets.

Tuple: A tuple object is an ordered collection of one of more data items, not necessarily of the same type put in parentheses

- * Boelly Explain the history of python?
- Python was created by Gruido Von Rossum in 1980 to 1990, the was a member of the National Research institute of Mathematics and computes science initially it was designed as a response to the ABC programming language that was also bregrounded in the Nether lands.

 Among the main features of python compared to the ABC language was that python had exception handling and was too geted for the Amorba operating system the name python is named from the British TV show Monty Python In addition to exception handling, python included classes, liels and Strings.
 - * Explain the operators in python?
 - O operators in Python are Arithmetic operators

 Relational operators

 Assignment operators

 Logical operators

 Membership operators

 Identity operators

 Bitwise operators
 - A Arithmetic operator are Addition, subtraction, multiplication Division, Floordivision, modulus, Exponentiation
 - * Relational operator are \langle , \rangle , $\langle z \rangle$, \langle

- * logical operator are and, or, not
- A Wempership obesator use in notin
- A Identity operator are is is not
- A BHWISE OPERATOR ONE BINDRY ANDRED BINDRY (1),
 BINDRY XOR (1)

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- * Explain Features of Python?
- @ & Easy to code
 - \$ Free and open source
 - * Object oriented language
 - & GUI peogeomming support
 - # High-level language
 - # Extensible feasture
 - * python is portable language
 - * Python is integrated language
 - & interpreted language
 - A large standard library
 - * Dynamically Typed language
- * justify why python is interactive interpreted language?
- (a) Unlike ((++ etc / python is an interpreted object-oriented programming language. Unlike (language, which is a compiled programming language. The compiler translateds the whole code in one-go rather than line-by-line. This is the reason why in a language, all the essons are listed during compilation only.