Assignment - 2

(1) What are the data types in python? Explain

(A) Integer :- positive (or) negative whole number are the integer datatypes in python.

float :- Any real number with floating point represent in which a fractional component is denoted by a decimal symbol or scientific notation.

Complex number :- A num with real a real and imaginary components represent as $x+yj$; x and y are floats and $j = -1$

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 items. not necessary of the same types, put in brackets.

(2) Briefly explain the history of python ?

(A) python was created by Guido von Rossum in 1980 to 1990. He was a member of the natural Resench of institute of mathame tics and computer science, intially it was designed as a response to the ABC program ming language was that python has extention The name python is from the British TV show mostly python. In addition to excep tion handling involved classes.

(3) Explains the operators of operation.

(A) operations of python are Arithemetic operator
Relational operator
Assignment operator
Logical operator
membership operator
Identity operator
Bitwise operator

→ Arithemetic operators are +, -, *, /, modules, Exponation

→ Relational operators <, >, <=, >=, ==, !=

→ Assignment operators +=, -=, /=, =, /=, **=, //=.

→ Logical operators and, or, not.

→ Member operators in, notin

→ Identity operator is, isnot

→ Bitwise operator Binary and (&) Binary (or) Binary (xor) (^) ~, <<, >>

④ Explain features of python?

→ Easy to code

→ free and open source

→ object oriented language

→ GUB programming subject

→ High level language

→ Extensible features

→ portable language

→ Integrated language

→ large standard library

(5) Justify why python is interepted languse?

(A) unlike c/c++ etc, python is an intercepted object orented programing langase. the compiler which is compiled programing languse. The compiler translate the whole code in one rather than c languse all the errors are listed during compilation only.

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