Assignment

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Section: B, (C.S.E)

1. what the datatypes in Python? Explain.

i. __Number__:- Number datatypes store numeric vales number objects are created when you assign a value to them.

ii. __Strings__:- String in Python are identified as a contiguous set of character represented in the quotation marks Python allows either pair of single or double quotes

iii. __Lists__:- Lists are the most versatile of Python Compound data types. A list contains items compounds separated by commas and enclosed within square brackets.

iv. __Triples__:- A triple is another sequence data type that is similar to the list. A triple consists of a number of values separated by commas. unlike lists, however, triples are enclosed with parenthesis.

v. __Dictionary__:- Python's dictionaries are kind of hash-table type. they work like associative arrays or hashes. found in perl and consist of key values pairs. A dictionary key can be almost any python type, but are usually number or strings - values, on the other hand can be any orbitory python object. Dictionaries are enclosed within only braces.

2. Briefly explain history of python?

-> Python is a general - purpose interpreted interactive, object - oriented, and high -level programming language

-> It was created by "Guido van Rossum" during 1985-1990

-> Python is named after a TV show called "monty Python's Flying circus' and not after python the snake.

3. Explain all operators in python?

-> when more than operator appeals in an Expression the order of Evoluation depends on the rules of precedense PEMDAS order of operation is followed in python.

-> parentheses have the highest precedence and can be used to force an expression to Evoluvate in order you want.

-> Exponentiotion has the next highest precedence

-> Multiplication and division have the same procedure which is higher than.

-> Addition and subtraction which also have the same precedence.

-> operators with some precedence are Evaluvater from left to right.

4. Explain Features of python.

→ Features of python

1. Simple
2. Easy to learn
3. Free and open Source
4. High level language
5. python is Beginneri language
6. portable / platform independent
7. Interactive
8. Interpreted
9. objected oriented
10. Extensible
11. Embeddable
12. Extensive libraries.

5. Justify why python is interactive interpreted language

→ Python is interactive

You can actually sit at a python prompt and interact with interpreter directly to write your programs Python is objected oriented. Python supports object oriented style or technique of programming that Encapsulates code with object.

→ Python is interpreted

Unlike c/c++ etc, python is interpreted object oriented programming language. By interpreted it is meant that which Each time a program is run the interpreter check through code errors.