A lefadeep 3218/030 3005 Python

CSE-B3

Sem-IY

Explain The diagram data types in python? Explain. Mi There are 5 data types: 2. Strington all at reliable in the 3. Listy riching and religion of the said your 14. Tuple plate transfer to policy de la 5. Dictionary - (1) omnos à itis hotiers 1. Numbers: - Numbers store Numeric Values. Python creates number objects when a number is assigned to a Mariable. Python supports four Types of numeric data. Linginto Jaz. Harabro 100 19 12 2. thongan per sail ni ti mail. 3. Aloature done modes eldel find wife or the 4. complex. 2. String: It is defined as a sequence, of characters represented in the quotation manks. In python, we can use single, double or triple Quotes to define a string.

3. List - It is similar to arrays in c. However the lest can contain data of different types. The stem stored by the last are seperated by a comma (,) and exclosed within space brackets (). 1. redocute of

It. Tuple! - It is similar to the list of many ways like lists tuples also contain the collection of the item, of different data types. It is seperated with a comma (,) and enclosed

It is a read only data structure as we can't modify the stize and values of the stems of a tuple.

5. Dictionary: - It is an ordered set of Key-value pair of stems. It is like an associative among or a hash table where each key stores a specific value.

2. Briefly emplain history of python. Am! The programming language python was conceived in the late 1980's and its simplementation was blarted in December 1989 by Gusdo Van ROSSUM at CWI in the Netherland as"

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handling and whiterfacing with the operating. - system. Python! was named by for the BBG Ty. show Monty python's Flying circus. Pigthon 2.0 was released by october 16,2000 with major neu features, including à cycle-détecting garbage collector for mimory management and support for unjude. Python 3.0. , a major backwards promportible release, was, released to on 1 December 3,12008 rafter a long period of testing. Manyon of its major features have also been backported to the backwards - compatible, while by new unsupported : python 2.6 and 2.7. 3. | Explain, all. The riogenations intipython? Anil 1. Arithmetic Operators + It perform various arithmetic Calculations like addition is substraction, multiplication, division imodulus exponent etc. There are various methods, for anotheretic calculation on python like you can me! the enall function; declare variable & scaleulate nor cally lunctions to Comparison Operators! There operators compare the Values 107 is entherne side if the operators and it determen the welation to between them is get is also

referred ail relational operators. Various comparison opérators d'are (== , (=+), <>, , = , , et c) 3. Assignment Operator: It is used for assigning the ralue dot the right to the left operand Various assign ment operators are used in 19thon tropper boe (+= == * = 1=). 4- Logical Operator! - In python are used for conditional mais Matements are true or false. Logical operatory in python are AND, OR and Non, For logical operators tollowing conditions are applied. AND operator = It returns TRUE! If both the operand 1 f. i bon de ates true tolevano · OR operator - It returns TRUE if either of the stantine moiron merandy is true. Not operator The It. returns: TRUE : 11 operand of falk 5. Membership Operator !- These operators test for member strings or tuples. There are two membership operators on python lin, not in . It gives the result based on the variable present: in specified sequence or string. 6. Identity Operator - To compare the memory location of two objects I dentify operators are wed the Scanned with CamScanner

This of identity operators some (8%, 30 Hot) operator 91 :- It velumis! True of two variables point the same object, and false otherwise. operator is not: It returns false if two variables point the same objects and true other wise. - Siding of it Augustic Easy to learn and Use:- it to be put in python it to be put to learn and Use:developer-friendly and highlevel programming language 2 Expressive langauge: Python langauge is more expressive means that is more understandable and readable. 3. Interpreted language: It interpreter executes, the code line by line at a time. This makes debugging easy and thus suitable for beginners. to Gross- plat form language in i viens lython can run equally on different platforms such at Windows, Linux, Unix andetc. So, we can day That python is a portable language. Tree and Open Source :-Duthin langauge gy freely available

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| of classes and objects come into existence | 7 0-4 |
| - Cremor ble in | |
| It implies that other languages such as c/c | -+4 |
| be used to compile the code and thus 94 | cay |
| be used to compile the code and thus stated bet wied further sn our python code. 8. Large standard library: It provides rich set of modules and explication development: | |
| Just Standard Library: | |
| The provides rich set of modules and an fill | |
| 9. G. of station development. | [DA] |
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which is a compiled programming language. The compile translates the whole code in one-go rather than line-by-line. This the reason why in a language all the errors are listed during compilation only.

An integrater is a translator in python computer's language which translates the given wide line-by-line in machine readable bytecody lython is interactive. When a python statements is entered, and is followed by the return key if appropriate the result will be printed on the screen, immediately in the next line. Interactive lython is very much helpful for debugging lupse.