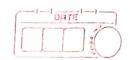


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| | Name : Gauri Narayan | - |
| | Class Assessment 1st | N. Sale princip |
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| | 0 1 0 19 | |
| | (30) Batch DA-18 | |
| | Date: 29/06/2024 | |
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| | | + |
| - 7 | L'illictorance between a | - |
| 017 | Explain the difference between a list and a tuple in pythan provide | L |
| | list and a tuple in pytrain | |
| | an example for each. | |
| | | 1 |
| tns. | list : | + |
| 1173 | list :- list is defined in a square | \vdash |
| | | _ |
| | brocket 17 List is collection of integer | |
| | · List is collection of | |
| | lich ic mutable | |
| | orn list we can store no. | |
| | of elements in one list. | - |
| | for ex. L=[1, 2, 3, 4, 5] | - |
| | 701 | _ |
| | ex. [1=[1,2,3,4,5] | |
| 2 - | ex. $[1=[1,2,3,4,0]$ | - 5 |
| | print [11] | |
| | and the second of the second o | |
| | | - |
| | a/P = [1, 2, 3, 4, 5] | _ |
| | 011 | _ |
| | | |
| | Tuple? | 6 |
| | Tuple is defined in a | |
| | round bracket or parenthelis () | |
| | · Tuple is collection of different | |
| | Lata type: like int, float, 8thing, | |
| | etc. Tuple is immutable. | |
| | for ex. $T=(1, 2.5, 'x\gamma z')$ | |
| | 101 67. | |
| | print (T) | |
| | $O/P = 1, 2.5 \times YZ$ | |



| (D2] | Delcribe the purpose of the set data type in python. provide an example to illustrate its use. | |
|----------|--|---|
| Ans- | set t set is a data type in python 3. Set is collection of valuel. The purpose of set is to remove duplicate valuel from the set. | |
| 2 | for ex. $q = \{1, 2, 3, 3, 4, 5, 6, 6, 7\}$ print (a) [a/P 1, 2, 3, 4, 5, 6, 7] The above example set will remove all duplicate values from the set-a. | ? |
| | what is the key difference between a float and an integer data type in python? Give an example where using a float would be more appropriate? | |
| → | float: - Froat data type is in decimal value. It is a numeric data type. float used when precision required in mathematical calculations. float can be positive or negative. | |

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| - | 2 1100 |

| a3] | |
|------|--|
| | Integer! . An integer is an numeric |
| | data type represents |
| | whole numbers. |
| | -Integer can be positive or negative. |
| | - Integer is commonly used for |
| (2) | counting, indexing, and |
| | performing anithmetic operations. |
| | Condy |
| | for ex. $a = (1, 2, 3, 4]$ b = [1.5, 2.50, 2.5, 3.40] |
| | print (a) |
| | print (b) |
| | . Private he wast whitehead her |
| | OIP 1234 |
| | 1.5 2.5 2.5 3.4 |
| 04] | |
| Ans. | dictionary :- |
| | In the dictionary data type |
| | we can store the valuel like |
| - | name, age of the person, and |
| | we can make dictionary. |
| | for extension of the land of t |
| | for ex. a= { "name": "xyz", "age": 20} |
| | print (a) |
| (a) | |
| | olp {'name': 'xyz' age: 20} |
| | |
| | A V 10 Charles |
| | In list and tuple we can |
| | Store the information like list |
| - | of different integers and in |
| | tuple we can store the different |
| | datatypes- |

| | Ori La |
|-------------|---|
| | The difference in dictionary and list, tuple is in dictionary were store data properly and we can give label also for the data. |
| 95] | |
| Ans | A python doc string is a String used to document or python module, class, function or method. This common practice to generate online (html) documentation automatically from docstring. |
| Ø6] Ans: | '// !- The purpose of ('/1') this operator to perform |
| | Floor division. Symbol for floor division is (11) The can be used to divide two numbers and get the result in which the quotient is rounded down the new nearset integer value |
| | Ex. $Q = 20$ $b = 3$ $result = Q // b$ $print (result)$ |
| | |



| <u>07]</u> | |
|---|-------------|
| Ans- The 'is' operator checke i | Floo |
| objects have the same identite operator | 7 |
| checks the two objects h | a ve |
| the same value. | |
| and the second office | 11 -11 1 |
| Ex. q = [1, 2, 3] | · · · · · · |
| b = [1, 2, 3] | 9 11 1 |
| print (a = = b) | |
| print (a is b) | |
| [010] | σ. |
| O/P True False, | |
| 1000 | ·~ 10 |
| 08] | |
| | |
| Ans. The += operator is used t | 0 |
| at anthmetical operation used | in |
| code it used for integer, s | loat |
| it defined the elements are | equal |
| and also add the elements | |
| 1) If A and B value fistly | |
| add A and B and the che | ock |
| it is equal or not- | |
| | |
| 0.7.1000 | |
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| <i>a</i> 3] | |
| Ans 2 | The 'in' operator in python is straight forward to use it checks wheather a value exists in a sequence (such as a list, truple or string) and returns a Roolean value: True, if the value is in the sequence and false if its not. Ex. num=[i, 2, 3, 4, 5] print (3 in num) |
| | olp True. |
| (010) | |
| Ans | A ternary aperator is a conditional operator in programming that takes three aperateds and evaluates an expression based on a candition. Ex a=5 msg='Hello' if a 70 else 'Goodbye' print (msg) |
| | Old Hello |

| | | ner | - | |
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| | | | 1 4 | |
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| 1 | |
| TIID | |
| Ans. | The if Statement is a conditional |
| | statement. |
| | · In python it is used to |
| | determine wheather a block of |
| | eode will be execute. |
| | |
| | Syntax |
| $\neg \uparrow$ | if condition: |
| 2 | # executive block of code. |
| 2) | The Control of the Co |
| | Ex. 0=10 |
| | |
| _ | ic 0>1: |
| | 1+ 4/6 |
| | 1. 1 (1) a lice a menter 11) |
| | print ("a is greater") |
| | if arb: print ("a is greater") |
| | print ("a is greater") |
| Q12) | |
| | ulhile is used to check condition |
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| | at 11st ance. - while and for both are used |
| | at 11st ance. - while and for both are used |
| | ulhile is used to check condition at list once. - while and for both are used for looping statement |
| ns. | ulhile is used to check condition at 11st ance. - while and for both are used for looping statement - for loop can't check the |
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| 012) ns. | ulhile is used to check condition at 11st ance. - while and for both are used for looping statement - for loop can't check the |

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|-------|--|----------|
| (8) | | |
| 2) | | + |
| 15. | Break statement is used to | + |
| | break the loop for a value. | + |
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| | a Marriage of Marriage | |
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| | , Otherson He | - |
| 14] | The state of the s | \vdash |
| | continue statement is used to | H |
| ne. | continue a value ofter breaking | |
| | the lone: | |
| \ / | It helps to continue a loop- | Ļ |
| 1) | | \vdash |
| | | \vdash |
| | The standard of the standard o | a |
| 915] | +0.0(n 1 1 to | |
| لردلة | leave are alter and horse study | |
| HDS- | else clause is very hebpful for | |
| | the coding. | 1 |
| 7 | It and else there are | |
| | two conditions | |
| | · When if condition goes to false then loop goes to the | |
| | else condition. | |
| | 7.10 | |
| | | |
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