

Saturday

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class → Bcs III year

subject → Data science

class Assignment - 01

Batch No - DA - 19

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Q1] Explain the difference between a list and a tuple in python. provide an example for each

List

List are defined by square [] brackets

tuple

tuple are defined by parenthesis ()

list are mutable

tuple are immutable

Eg =

i = [10, 20, 30]

Eg =

i = (10, 20, 30)

Q2] Describe the purpose of the set data type in python provide an example to illustrate its use

In set data type of python we are using some several to store several items in a single variables it is one of the four built list data types.

①

Q.3)

→ the key difference between a float and an integer data type in python

• float

integer

in The float variable is the point values

in the integer variable the not point

• Eg. of float

a = [1., 2., 3., 4.]

• Eg example of

integer

a = [1, 2, 3, 4]

(2)

Q.4)

→ The dictionary data type in python differ from lists and tuples

List and dictionaries are different data structure

In python lists are ordered collection and the data in key value pair from both lists and dictionaries the tuples and in ordered in python

(2)



Q5]

→ doc string and use of this string in python

A python doc string is a string used to document a python module class a function or method ~~underscore~~ understand function or method we can do what it does without having to read the details of the implementation

②

Q6]

→ the purpose of the // operator in python operators refers to special symbols that perform operations on values or variables furthermore the operands in python one of the programming languages refer to the values on which the operator operates most noteworthy operator can carry out arithmetic, relational & logical

②

Q7]

→ Example

```
def ("frag")
```

```
my-function ( ) :
```

```
print ("Hello world")
```

The == operator helps us compare the equality of object the variable point toward a similar object to the memory

②

Q8]

→ The use of the // operator in python

The use of the // operator in python is to define the value whether the value is + = operator

The plus - equals operators += provided of converted ways to add a value to an existing variable and assign the new back to the same variable

(2)

Q9]

→ Role of operator in python programming

operator defer to operator are the role of operator special symbols combinations of symbols or keywords the designate some type of computation you can combine objects and operators to build expression that perform the actual computation So operator are the building block of expression which you can use to manipulate you data

(2)



Q10]

→ The concept of the ternary operator  
(`x if condition else y`) in python

It returns true or false values by  
evaluating a boolean condition it  
is shorter and more  
readable than simple if else  
Statement than simple if  
else Statement

(1)

Q11] \*

→ the if Statement in python

The if - else Statement is  
used to execute both the  
true part and the false  
part of a given condition

If the condition is true  
the if block code is  
executed and if the  
condition is false the  
else block code is  
executed

(2)

Q12]

→ Different between while and for loops in python

The main difference between the while and loop is python

The main difference between while and for loops

①

Q13)

→ The significance of the break the control statement it is used to the control statement control the sequence of the loop. Suppose you want to terminate the loop and skip to the next code after the loop break will you help to do that and typically sensor is using conditions to the break statement.

②

Q14]

→ the role of the continue statement in python

The continue statement in python is used to skip in remaining code inside a loop for the current iteration only pass : the pass statement in python is used when a statement for the array iteration (2)

Q15]

→ the else clause in a loop contribute to the control flow in python

in for loop the else clause is executed after the loop reached its final iteration in a while loop its a executed after the loops condition become false in either kind of loop the else clause is not executed if the loop will terminated a break

(2)