Assignment -1

1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

\* =expression

'hello'=string

-87.8=float

- =expression

/ =expression

* =expression

6 =integer

2. What is the difference between string and variable?

Ans- String represents texts enclosed with quotation marks. For example, “Python”.

Variable contains the data type information. For example, a=10,b= “growth” etc.

3. Describe three different data types.

Ans.-[1]List-list includes different data types. Each item is separated by comma(,).it enclosed with []. A list can contain various data types like string,float, integer etc. for example, l=[1,2,3,4.5,6.7, “neel”]

[2]Dictionery- It is a set of key-value items. Where each key has its specific value. It enclosed within curly brackets{}. Each pair of key and value is separated by comma(,).for example,

d={‘name’:’ jully’, ’number’:’231’, ‘course’:’Python’}

[3] Tuple- It stores multiple items which are ordered and unchangeable in a single variable. It enclosed within round brackets().for example, t=(1,3,5,7,9).

4. What is an expression made up of? What do all expressions do?

Ans- Expressions are made up of constants, variables,math operations. It represents value.for example, integer is also an expression as it also shows value of numbers.

5. This assignment statements, like spam = 10. What is the difference betwden an it

Ans- Expression is a combination of constants, variables,operation etc. and returns a new value. While Statement is a command and unit of execution,it returns nothing.

6. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

Ans= 22

7. What should the values of the following two terms be?

'spam' + 'spamspam'= ‘spamspamspam’

'spam' \* 3= ‘spamspamspam’

8. Why is eggs a valid variable name while 100 is invalid?

Ans= eggs is a valid variable name because variable name is start with the texts and can’t begin with the number. so, 100 is invalid.

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

Ans= int(), float(), str() can be used to get the integer,floating-point number, or string version of a value respectively.

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

Ans= This expression cause an error because 99 is an integer and the strings can be added to other strings .

We can fix it by,

‘I have eaten’+ str(99)+ ‘burritos’

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