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**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?**

A variable is a store of information, we can consider a variable like an empty container that holds the values.

String is a type of information we would store in a variable.(it's used to store text type data)

Example:

X= “Hello world”

Here X is variable,and we declared it as a string

**3.Describe three different data types.**

Integer: Integers are one of the types that can be used to represent numbers in Python. These can be both positive and negative values and may be arbitrarily large.

Example:

n=73

neg\_num=-9

large\_num=123489999099

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

An expression is a combination of operators and operands that is interpreted to produce some other value.like a number,string or an instance of a class.Any value is an expression.

**5.These assignment statements, like spam = 10. What is the difference between an expression and a statement?**

An expression is made up of values,containers and mathematical operators(operands)

and the statement is just like a command that a python interpreter executes like print

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

**bacon = 22 bacon + 1**

The variable bacon contain a value 23

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

**'spam' + 'spamspam'**

**'spam' \* 3=**

'spam' + 'spamspam' = ‘spamspamspam’

'spam' \* 3= ‘spamspamspam’

both the value is same

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

100 is an integer, where eggs can be used as a variable

because we can't start giving variable an integer name. if we, we should begin with a string-like alphabet name then integer. e100 or eggs100 is valid

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

Integer — int()

Floating-point —float()

String — str()

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

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

“99” is an integer and not a string, so the operations are incompatible until “99” is converted into a string.

Fix: use str() to convert “99” to a string.