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' - Value

-87.8 - Value

- - Expression

/ - Expression

* - Expression

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2. What is the difference between string and variable?

-- String is a datatype which is made up of a sequence of characters. (e.g.: ‘avdjdsgg’)

--Variable is a memory space which can store data. (e.g.: a =” abcde”)

3. Describe three different data types.

-- integer – Whole number that can be positive or negative

--Float – Decimal value

--String – Characters

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

-- An expression is made up of variables and mathematical operators.

-- They are used to deduce a value

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

-- An expression is use to deduce a value out of it.

-- A statement doesn’t have to evaluated, it doesn’t return a value.

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

bacon = 22

bacon + 1

-- 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?

-- Some of the rules to name a variable:

1. should start with a letter or underscore

2.cannot ccontain special symbols except underscore

3. Connot start with a number

Thus eggs is valid as it starts with a letter and does not contain special symbols. And of 100 it starts with a number , thus its not valid.

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

-- int(),float() and str()

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

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

* Python cannot concatenate string with an int
* Solution:

‘I have eaten’+str(99)+ ‘burritos’