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.

\*

'hello'

-87.8

-

/

6

----------------------------------------------------------------

<ANS>

\* – expression

‘hello’ – string

-87.8 – floating number

- – expression (subtraction)

/ – expression (Division)

+ – expression (Addition)

6 – integer

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2. What is the difference between string and variable?

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<ANS> A string is any value between “ ” or ‘ ’ .It is assigned to a variable and the variable is a string datatype

A variable is any identifier that has a value assigned to it and it hold in the memory. It can be a word, anything starting with \_, variables can’t be numbers or named starting with number e.g 123Name.

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3. Describe three different data types.

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String – This data type is used for variables who hold string values. e.g - Name = “Satish”

Integer – This data type is used to hold integer numbers. e.g - Age = 10

Float – This data type is used to hold decimal point numbers e.g – Price = 22.15

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

An expression is a combination of values, variables, operators, and calls to functions.

produces some value or result after being interpreted by the Python interpreter.

e.g - a = b + 10

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

Expression – An expression in Python can contain **identifiers**, **operators**, and **operands.**

Statement – A statement is used for **creating**[**variables**](https://www.scaler.com/topics/python/variables-in-python/)**or for displaying values.**

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

bacon = 22

bacon + 1

bacon

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<ANS> bacon = 22

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

'spam' + 'spamspam'

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<ANS> - spamspamspam

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'spam' \* 3

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<ANS> - spamspamspam

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

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<ASN> No variable name can start with number.

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

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<ANS> - int() , float() , str()

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

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

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<ANS> - You can’t concatenate a number to a string.

If it is changed to 'I have eaten ' + '99' + ' burritos.' The error will go.

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