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.

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'hello'> values

-87.8>values

- >expression

/ >expression

* >expression

6 >values

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2. What is the difference between string and variable?

String is nothing but the sequence of character enclosed in a single or doble quotes.

Variable is used to assign the values to an expression.

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3. Describe three different data types.

String- the sequence of character enclosed in a single or doble quotes.

Integer-it is used to represents the whole number.integer can be represented in the 1. Base ten(10) 2. base two(binary) 3. base 8 4. base 16

Floating- it is used to represents the decimal number.floating number only be represented in the base 10.

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

-Expression is made up of variables, values, operators. let suppose I will say are of the circle A=pi\*r^2 then here pi\*r^2 is an expression. expressions try to evaluates the values given in the statement.

e.g. lets suppose x+54=100 so here x+54 is called an expression

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

SPAM=10

So here SPAM=10 is called as statement or arguments whereas = is called an expression

Expression is something which try to evaluates the values given to the variable whereas statements is combination of all this thing expression,values,variables,operator,functions.

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

bacon = 22

bacon + 1

bacon will contains number 23 which is in the form of interger.

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

'spam' + 'spamspam'>>this will perform the string concatenation operation and will give the final output as= ‘spamspamspam[

'spam' \* 3>>this will perform the string multiplication and output of this program also same as above output=”spamspamspam’

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

-Because in python the variable name cant start with the number. It should start with the alphabets or we can use underscore(\_) to define the variable name.

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

To get the interger we can use int().

For floating point float()

For string we can use string()

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

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

We cannot perform the addition operation with the string and integer values.

FIXING:

Since the provided input is the string apart from the 99. We can perform the string concatenation by converting the integer value 99 to string

So the final input will be

A= ‘I have eaten’+’99’+’burritos’

A=’I have eaten 99 burritos’