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.

\* - expressions

'hello'-values

-87.8-values

- - expressions

/ - expressions

* - expressions

6 -values

2. What is the difference between string and variable?

String is set of of characters in alphabets.It's a value representing text.For Eg:-"welcome","how are you" "Mahendra Singh Dhoni"

Variable is a named location used to store data in memory.We write variable name and assign value by = sign.For Eg:-

x=32(here x is variable that is holding data 32)

name="CSK"(here name is variable holding data CSK)

3. Describe three different data types

Three different data types are Integers, Float,Strings

INTEGERS:-are positive and negative numbers and are whole numbers without any fractional component.For Eg:- -45, 223

FLOATS:- are real nubers with decimal point.For eg 2.156, 56.00

STRINGS:- sequence of characters data enclosed in quotes("")For eg:-"Raman","i Am Happy"

4. What is an expression made up of? What do all expressions do?An expression is combination of operators and operands;It consists of variables,values,operators and definrd functions.For eg:-x=2

y=3

a=x+y

print (a)

All the above four commands are expressions

Expressions are operated to find values

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?Statement is an instructions to be executed while expression consists of variables,values,operators

So assignment statements states wherever spam variable is used it wl hold the value 10 until and unless changes are made.

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam' 'spamspamspam'

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'spam' \* 3 'spamspamspam'

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8. Why is eggs a valid variable name while 100 is invalid?Because a variable can strt with\_, Alphabets, numbers within alphabets but not start with a Number.

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

floating-point number:-float()

string version of a value:-str()

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

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

in an expression concatenation is done between strings and not between strings and integer.99 is an integer but can be concatenated if 99 would have been expressed '99' ('I have eaten'+ '99' + 'burritos')

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