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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Ans) expression

'hello'

Ans)value

-87.8

Ans)value

-

Ans)expression

/

Ans)expression

Ans)expression

6

Ans)Value

2. What is the difference between string and variable?

Ans)String is the data type of a variable. Whereas Variable is memory where you can store data.

3. Describe three different data types.

Ans) String-ex:”hari”, list ex:[1,2,3,4,’hari’], tuple ex: (1,2,3)

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

Ans) An expression is a combination of operators and operands that can produce a value.

It can perform certain operation based on different operators. If there are more than one operator it follows precedence rule and evaluate the expression.

Ex:”1+2”

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

Ans)An expression will return a value whereas statements don’t.

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

bacon = 22

bacon + 1

ans)22

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

'spam' + 'spamspam'-ans) ' spamspamspam'

'spam' \* 3-ans) 'spamspamspam'

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

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

Ans)int(),float(),str().

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

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

Ans) Python allows only operations between same data types. Here we are trying to concatenate string datatype with a int data type,so python throws an error.The solution would be to convert 99 to string i.e 'I have eaten ' + '99'+ ' burritos.'