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
Answer- Values are *, -87.8, -, /, +
And string is 'hello'

2. What is the difference between string and variable?

Answer - Variable is which store the information and string is a information which is being stored within a variable.

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Example – num1 = 'hello'
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Here num1 is a variable and 'hello' is an information we store in the variable num1 and string always written between ' 'or " ".

3. Describe three different data types.

Answer - List: It is like an array ordered collection of data and it is flexible that contains different types of items.

Tuple: It is like list but it is immutable, tuples cannot be modified after it is created.

Set: It is an unordered collection of data type that is iterable, mutable, and no duplicate value

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

Answer – An expression made up of variable, operators, and method.

All expression evaluates to a single value.

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

Answer - An expression made up of variable, operators, and method.

And the statement is like a command.

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

bacon = 22

bacon + 1

Answer - bacon contain 23



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

'spam' + 'spamspam'

'spam' * 3

Answer - 'spamspamspam'

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

Answer - we can't give an integer as a variable name the variable name always start with an alphabet

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

Answer – str (), float (), int ()

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

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

Answer – Here 99 is an integer we can't concatenated an integer with a string here we need to do typecasting