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.

\* expression

'hello' value

-87.8 value

- expression

/ expression

* expression

6 value

2. What is the difference between string and variable?

Variable: we store the data in variables with different type of datatypes.

String: A String is usually words, enclosed with ""

3. Describe three different data types.

String: string is a collection of one or more characters put in a single quote, double-quote

List: List is a ordered collection of data, in a list do not need to be of the same type.

Tuple: tuple is also an ordered collection of Python objects. The only difference between tuple and list is that tuples are immutable i.e. tuples cannot be modified after it is created.

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. Expressions need to be evaluated.

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

An Expression always evaluates to a value. And, A statement does something, like creating a variable or displaying a value, it only does whatever the statement says.

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'

'spam' \* 3 : 'spamspamspam'

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

Variable name should start with character.

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

 int() , float() , and str( )

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

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

'I have eaten ' + ‘99’ + ' burritos.'