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?

String is a datatype and variable is a container to store the data.

3. Describe three different data types.

String, Integer, Float

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

Expression is made up of mathematical operators. Expressions do some mathematical calculations for us.

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

Expression is mathematical operator here i.e equal to and statement consist of some variable value and expression.in this statement we are assigning 10 value to spam variable.

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?

Eggs is a valid variable name because it is satisfying naming convention of variable In python that is string but 100 seems like an integer and it will throw an error.

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

str(variablename)

int(variablename)

float(variablename)

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

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

It throws an error because 99 is an integer not a string so + is doing concatenation and it is only for string. We can fix it by wrapping 99 to single quote so that It can treated as string.

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