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.

\* (mathematical operator)

'hello' (string)

-87.8 (integer)

- (mathematical operator)

/ (mathematical operator)

* (mathematical operator)

6 (value)

2. What is the difference between string and variable?

String is a data type and variable is something that holds data and has got memory allocated for that.

3. Describe three different data types.

int, str bool, dict, map, set, list etc.

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

Expressions are made up of variables, objects and operators. They evaluate to a value and the value can be of any data type.

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

Expressions evaluate to a value. They basically represent a value and statements are for doing some task in programming.

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

bacon = 22

bacon + 1

The variable bacon contains 22 only as the expression bacon+1 is not assigned to any variable.

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

'spam' + 'spamspam' will result in spamspamspam

'spam' \* 3 will result in spamspamspam

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

Because variable name cannot start with digits in python.

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.'

This expression cause an error because we cannot concatenate str and int. However, to fix it we can use this 'I have eaten ' + str(99) + ' burritos.'