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'hello': Value

- :Expression

/ :Expression

* :Expression

6 : 'hello': Value

2. What is the difference between string and variable?

String is a data type while variable is kind of container for data

e.g “dream” is a string

x=”dream”, here x is a variable

3. Describe three different data types.

Integer

String

Decimal

float

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

An expression is a construct made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value.

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

Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.

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

bacon = 22

bacon + 1

bacon=23

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

'spam' + 'spamspam'

'spam' \* 3

Both will give following value: 'spamspamspam'

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

According to variable naming conventions a variable name cannot start with a number.

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

Int()

Float()

Str()

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

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

+ operator for string performs concatenation. Since we have 99 as an integer the difference in data type will cause the error.

We can change the data type of 99 to string using str() functions and the will get the output as 'I have eaten 99 burritos.'