1. In the below elements which of them are values or an expression? e.g.: - values can be integer or string and expressions will be mathematical operators.

\* Expression

'hello' values

-87.8 values

- Expression

/ Expression

* Expression

6 values

2. What is the difference between string and variable?

String is just a character or group of character or any numerical value or special characters within a quote (“” or ‘‘) that is stored in a variable whereas variable is a place where we store information like string.

3. Describe three different data types.

* Int represents integer or whole numbers like 1, 2766, 300,
* Float represents decimal values or fractional values 1.456, 9.00
* Str for String represents alphabets or any value within quotes.
* Bool for Boolean represents either True or False

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

Expressions are generally made of variables, operators, operands etc.,

These expressions do certain sort of operation to produce a solutional value.

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement? Expressions gives a value, but statements do some activity like printing, assigning etc. Expression can be made from other expressions whereas statements are not.

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

bacon = 22

bacon + 1

The variable bacon contains 22

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

'spam' + 'spamspam' o/p is ‘spamspamspam’

'spam' \* 3 o/p is ‘spamspamspam’

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

Eggs is considered as a valid variable name and 100 is invalid because variable name can be alphabets and not numerical values. If numerical values are to be included, they can be included at the end of the variable name.

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.'

This expression causes an error because here we are trying to add integer with strings. The solution is that we can typecast 99 to a string or just put 99 within the quotes (‘99’) as I have eaten ' + ‘99 ‘+ ' burritos.'