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 is a container that can contain any type of data.

String is a data type in which we can store characters.

3. Describe three different data types.

int  1234

float 12.34

boolean True,False

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

Expression is a combination of operators and operands. Expressions evaluate and produce some value.

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

Expression evaluates to a value statement does not**.**

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

bacon = 22

bacon + 1

22 (because after increment by 1 we are not storing)

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?

Because Identifiers can use alphabets,\_,digits. It can start with the alphabet or \_ but It cannot start with a digit. 100 is starting via 1 that is invalid.

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

For integer version int()

For floating-point number version float()

For string version str( )

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

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

we can not concatenate string to Integer.

fix=> 'I have eaten ' + '99'+ ' burritos.'