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 generally used to store a value( string can be a variarble)

String is a type of information ( it can be stored in variable)

3. Describe three different data types.

String

Numerical ( it consist integer, float, complex)

Boolean

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

Expression are made up of operator and operands

Expression is generally used to evaluate a statement for example simple addition( addition can be of integer and strings), the evaluation will be done with the help of operand and operator

(in simple addition, + is the operator)

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

In expression there will be some evaluation( for example addition multiplication or ant other operation)

In Statement no evaluation will be there , it will just a simple statement( for example assigning a value)

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

bacon = 22

bacon + 1

Bacon will still be 22

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

'spam' + 'spamspam'

'spam' \* 3

spamspamspam for both

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

Because there are certain rules for assigning a variable name

* special character can’t be there in the name except underscore
* It cant be start with a numerical value
* Dont give a variable name of reserve word( example while, if, else)

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.'

Here 99 is an integer (as it is not in colon), so we can not add different data type

So we have to convert 99(integer) to '99' (string), then it will work

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