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' – Values (String)

-87.8 - Value

- Expression

/ - Expression

* - Expression

6 - Value

2. What is the difference between string and variable?

Variable is the named location used to store data in memory

String is a data type which is a combination of one or more character data

3. Describe three different data types.

Integer

String

Float

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

Expression is made up operator and variables or strings or integers or float values, Expression calculates or operates or produces a value , eg if a = b + c, the expression here adda the value of b and c and assign it to a

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

A statement is used to declare or assign, while expression can be assigned or used for operating and calculating a value

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

bacon = 22

bacon + 1

It contains the value 23

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

'spam' + 'spamspam'

'spam' \* 3

Output of the both expressions will be ‘spamspamspam’

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

Eggs in this case is a group of characters, which used to name a variable, which is used to save value, as 100 is in itself a value cant be used to name a variable.

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 contains a value 99 which is being concatenated to strings, if we add 99 in quotes will fix the error

‘I have eaten’ + ‘99’ +’burritos’