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.

\* = expressions

'hello' =value

-87.8=value

- = expressions

/ = expressions

* =expression

6 =value

2. What is the difference between string and variable?

🡪 String is a data type and written in quote

Variable is assigned name to data type and it reserved memory location RAM.

3. Describe three different data types.

🡪Float=float contains integer value as well as decimal value like 45.0 is consider as float and 45 is consider as integer.

Boolean=bool contain True or False value ,1/0 ,Yes/ no.

Integer =integer contain numerical value positive, negative numbers not decimals value .

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

Expression is made up of mathematical operators

+ -- add numbe

- --subtract numbers

\* --multiply numbers

/ --divide numbers

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

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

bacon = 22

bacon + 1

🡪23.

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

'spam' + 'spamspam'

'spam' \* 3

🡪’spamspamspam’.

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

Because 100 is an integer data type and 100 is already stored in memory location of if we use 100 as variable it get confused .

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

🡪a=100

Int(a)

Float(a)

Str(a)

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

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

Because 99 is an integer and other two are string we cannot concatenate two different data type so we have to convert 99 into string and than we will be able to concatenate

‘I have eaten ‘ +’99’+’burritos.’