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.

\* >> this is a mathematical operator

'hello' >> this is a string

-87.8 >> this is a simple number

- >> mathematical operator

/ >> mathematical operator

+ >> mathematical operator

6 >> simple number

2. What is the difference between string and variable?

Ans. string is a data type , whereas variable in address in memory for particular value

Example:- a = ”hi ” here a is a variable , hi is a value and it has string datatype

3. Describe three different data types.

Ans. string, int, bool, float

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

Ans. expressions are made of mathematical operators, and they help us do mathematical calculations with any datatype.

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

ans. 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans. “spamspamspam”

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

Ans. because we are making an address in memory and when we do eg 100=3 it will give us error.

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

Ans. int , float , str

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

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

Ans. 99 should be in colon “ 99 ”