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?

Ans: String is datatype that we can assign to a variable, whereas variable is used store the values .

3. Describe three different data types.

Ans: int-used to store numerical values

Float-used to store decimal point values

Bool- has two values either “TRUE” OR “FALSE”

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

Ans: Expression contains values along with the mathematical operations,

Expression is used to do the mathematical operations example:9+7

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

Ans: In this spam is an expression , spam is a variable value 10 is assigned to it expression evaluate values, statements perform action and statement is like a sentence madeup of expressions.

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

bacon = 22

bacon + 1

Ans: 22

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

'spam' + 'spamspam'

'spam' \* 3

Output: spamspamspam

spamspamspam

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

Ans: 100 is a value which makes no sense to use it as variable, eggs can be variable to store value like how many eggs. Example eggs=10

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

Ans: Integer values can be get by using int()

For floating use float()

String- str()

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

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

Ans: by default python assumes values as string in the above expression 99 is a value

The value cannot concatenate it is integer value we can fix by using “99” in string

Format ‘I have eaten’+’99’+’burritos’