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(string)

-87.8 = value(float)

- = expression

/ = expression

* = expression

6 = value(int)

2. What is the difference between string and variable?

Ans = In string we can represent character like , letters , number symbol ,spaces and it closed in a double quote

Variable = variable is name that store a value of any data types including string.

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

Ans = Expression is made up of values, variable and operators.

Its work, calculating the mathematical equation and give a result or value, whatever evaluation have been passed.

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

Ans = you have given a spam = 10, so this is an assignment statement, it assigns the value of 10, and value is hold by variable spam. However, Expression is where you evaluate or produce any result 1+5 = 6 this is called an expression.

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

bacon = 22

bacon + 1

Ans = I paste this is Jupiter its shows the results 23.

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

'spam' + 'spamspam'

'spam' \* 3

Ans = 'spamspamspam' ( Jupiter shows this result)

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

Ans = Because we can’ start any number as a variable if we can use \_100 like this then this will be valid.

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

Ans = int() is used to change value to interger . int(4.7) = 4

Float () is used to change into decimal float(3) = 3.0

Str() is used to change any value to text = str(10) = “10”

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

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

Ans = when I run this in jupiter , its shows me

TypeError: can only concatenate str (not "int") to str  
 so I just check the code and is change the 99 into string used a double quote “ :”