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.

Ans:\* - multiplication operator

'hello'-string

-87.8 - Float

- substrication

/ Divsion

* Addision

6 - Int

2. What is the difference between string and variable?

Ans: Variable: It is a store information.

String: Its is type of information u would store in variable

3. Describe three different data types.

Ans: String = used for Alphanumeric character ; example hello world, Alice, Bob123

Integer= Whole number ; example 7,12,999

Float(Floating point) = Number with a decimal point; Example 3.15,9.06,00.13

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

Ans: It’s a combination of operator and operant that is enterprinted who to produced some other value.

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

Ans: An expression evalute single value and statement does not.

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

bacon = 22

bacon + 1

Ans= The bacon variable is set to 22. The bacon + 1 expression does not reassign the value in bacon (that would need an assignment statement: bacon = bacon + 1)

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

'spam' + 'spamspam'

'spam' \* 3

Ans = Both expressions evaluate to the string 'spamspamspam'

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

Ans= variable name cannot begins with number.

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

Ans = The int(), float(), and str() functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

Ans = The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.'.