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.

\*

'hello'

-87.8

-

/

6

Ans1: Expression (\*,-,/,+) and Values (‘hello’,-87.8,6)

2. What is the difference between string and variable?

Ans2: String: Which are in between single quotes or double quotes are string like ‘example’ or “example” string is immutable.

Variable: Value of a variable can be changed like x=2 and in next moment we can change x=3.

3. Describe three different data types.

Ans3: String, integer and float are the three data types

String is always defined in between single quotes or double quotes.

Integer is a numerical value which does not take decimal.

Float is a numerical value which accommodate decimal.

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

Ans4: Expressions are mathematical, binary operators like (+,-,\*,/,%, and ,or) which gives a value

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

Ans5: The statement is a command like here spam=10 which states that 10 is assigned to spam whereas expression perform an operation and gives a value.

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

bacon = 22

bacon + 1

Ans6: bacon value will be 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans7: 'spam' + 'spamspam' is ‘spamspamspam’

'spam' \* 3 is ‘spamspamspam’

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

Ans8: variable name can’t start from a numerical value it should start with a character hence eggs is valid variable name.

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

Ans9: int(),float() and str() can be used to get desired value.

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

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

Ans10: we are string with a integer so it will show error.

The correct expression is 'I have eaten ' + str(99) + ' burritos.'