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:

\* Valid

'hello' Valid

-87.8 Not Valid

- Valid

/ Valid

* Valid

6 invalid expressiong

2. What is the difference between string and variable?

Ans:

String is a Datatype and variable can hold any datatype value.

3. Describe three different data types.

Ans:

LIST ,Tupple,Dictionary

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

Ans:

An expression is a combination of operators, constants and variables. An expression may consist of one or more operands, and zero or more operators to produce a value.

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

Ans:

A statement in Python is not evaluated for some results. An expression in Python is evaluated for some results. The execution of a statement changes the state of the variable. The expression evaluation does not result in any state change

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

spamspamspam

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

Ans:

"eggs" is a valid variable name because it starts with a letter and contains only letters.

"100" is an invalid variable name because it starts with a digit, violating the rule that variable names must start with a letter or an underscore.

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

Ans:

 int(), float(), and str()

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

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

Ans:

In the above expression trying to concatenate the 99 is the number to the strings. So. Getting the error

Solution is 'I have eaten ' + str(99) + ' burritos.'