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

**Answer:**

Hello, -87.8 , 6 are values. \*, -, /, + are expressions

2. What is the difference between string and variable?

**Answer:**

Variable are used to store data of any data type. String is one of the data type and can be stored in a variable.

3. Describe three different data types.

**Answer:**

int, varchar, list

int data type is used to store data of numeric values. Eg: 1,2,45 etc

Varchar is used to store strings or characters. Eg: “India”, “Peacock”

List is used to store any type of values in a indexing manner. Eg: [1,2, ”india”, 34.5]

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

**Answer:**

Expressions are made of variables and operators. Expressions are evaluated to a final value.

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

**Answer**: spam = 10 is a statement which assigns value 10 to a variable named spam. Expressions always returns a final value where as statements doesn’t

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

bacon = 22

bacon + 1

**Answer**: 22

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

'spam' + 'spamspam'

'spam' \* 3

**Answer:**

spamspamspam

spamspamspam

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

**Answer:**

Variable names should not start with numbers so 100 is invalid variable name and eggs is a valid variable name.

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

**Answer:**

int(), float() and str() functions are used to get integer, floating point number and string version of a value respectively.

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

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

**Answer:**

‘I have eaten’+’99’+’burritos’