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

-87.8 : Value

- : Expression

/ : Expression

* : Expression

6 : Value

2. What is the difference between string and variable?

String is a datatype used to define a character data type

Variable is used to define or store a data. Data may be integer type or character type.

3. Describe three different data types.

Numeric data type: data type for whole numbers. Ex: 25400

Float: Used for decimal numbers. Ex: 4.562

Strings: Generally used to define texts. Anything defined using double quotes will be converted into strings. Ex: ‘Home’ or “Hollo!”

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

Expressions are basically the variable or mathematical operators which used to evaluate single value.

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

Expressions evaluates to get single value and the statements are like command which are used while printing the i/p or o/p.

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

bacon = 22

bacon + 1

Ans: bacon=23

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

'spam' + 'spamspam' = 'spamspamspam'

'spam' \* 3 = 'spamspamspam'

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

Variables can only defined using characters. 100 is a number which is predefined.

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

Int()

Float()

Str()

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

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

We can add only a homogeneous data types. Above expression has char and int data types, which can not be add.

We can fix this by converting integer data type into char data type as shown below.

*'I have eaten ' + str('99') + ' burritos.*