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 set of characters stored in contiguous memory locations.

Variable is an identifying element to access a value. Variables have address value to store the value in that address.

3. Describe three different data types.

Integer:Integer is data type indicated by keyword int.It determines size and type of integer variables which have integer value in it.

Float:Float is data type indicated by keyword float.It determines size and type of decimal variables which have decimal values in it.

Boolean:Conditional data type,which determines either True or False.The values will be ‘True’ and ‘False’. indicated by bool keyword.

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

Expression is lines of code containing operators performing operations on operand.

They will return the result of operation performed on the operands respective of their the operators present in the expressions.

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

Statement is just a standalone unit of execution and doesn’t return anything.

An expression is a combination of values and functions that are combination of values.

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

bacon = 22

bacon + 1

22

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

'spam' + 'spamspam'

'spam' \* 3

spamspamspam

spamspamspam

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

variable can starts with \_or alphabets.but cannot start with number.

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

int(),flost(),str()

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

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

string cannot concatenate with integer value.

we fix by,

‘I have eaten’+’99’+’burritos’