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 -

\* -\_ Expression

'hello' - Values

-87.8 - Values

- Expression

/ Expression

+ Expression

6 values

2. What is the difference between string and variable?

Ans -

String is a primitive type of data that can be store in variable

Variable is a object where we can store different type of data

3. Describe three different data types.

Ans -

Integer – it is a positive or negative value of whole numerical data.

Float - it is a decimal numbers data type.

Booleans – it is true/ false value representing data type where True represent YES and False represent NO

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

Ans -

Expression made up of Operators and Operands or it is a combination of variables, operators and functions, with the help of this expression can create new values.

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

Ans -

A Statement is the smallest executable unit of code that has an effect, like creating a variable or displaying a value.

The main difference between expression and statement is evaluation of an expression always Produces or returns a result value, where as evaluation of an statement may or may not produces or displays a result value, it only does whatever the statement says.

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'

Ans - 'spamspamspam'

'spam' \* 3

Ans - 'spamspamspam'

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

Ans - as per rule A variable name cannot start with a number.

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

Ans - variable a

int (a)

float (a)

str (a)

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

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

Ans –

In above expression we cannot concatenate integer to the string therefore

it will give following error.

can only concatenate str (not "int") to str