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.

\* - Expressions

'hello'- string

-87.8- Interger

- Expressions

/ - Expressions

+- Expressions

6 – Interger

2. What is the difference between string and variable?

Variable is something that holds a value that may change.

String is a datatype that used to represent text.

3. Describe three different data types.

Interger,String,Float

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

An Expression is combination of values, variables, operators and call of functions. An expression is an instruction that combines values and operators and always evaluates down to a single value

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

Statements represent an action or command e.g print statements, assignment statements. Expression is a combination of variables, operations and values that yields a result value. An expression is something that can be reduced to a value, for example "1+9" or "a = 1+9"

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

bacon = 22

bacon + 1

Ans:22

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?

Because variable names cannot begin with a number.

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

The int() , float() , and str( ) functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.