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' **values**

-87.8 **values(float)**

- **expression**

/ **expression**

* **expression**

6 **values**

2. What is the difference between string and variable?

**STRING- Type of information that would be stored in variable**

**VARIABLE- It is a memory location to store the data types**

3. Describe three different data types.

**STRING – used for a combination of any characters like letters, numbers and symbols**

**CHARACTER- used for single letters**

**INTEGER-used for whole numbers**

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

**Expressions are combinations of values and operators**

**An expression is an instruction that combines values and operators and always evaluate down to a single value**

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

**An expression evaluates to a single value. A statement does not**

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

bacon = 22

bacon + 1

**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?

**Numbers cannot be used as Variables if used we get syntax error - cannot assign to literal**

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

**int() evaluates to integer**

**float() evaluates to floting point numbers**

**str() evaluates to string version of value**

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

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

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