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.

\*

'hello'

-87.8

-

/

6

**Ans:** Values are: 6, -87.8, ‘hello’

Expressions are: \*, -, /, +

2. What is the difference between string and variable?

**Ans:** A Variable is a name given to the location in memory which is a store of information.

String is a data type we use to store in a Variable.

**Eg** String A ="hello world!!!"

A is the Variable, and we declared it as a String, use the single = to assign the text to it.

3. Describe three different data types.

**Ans: 1] Integer:**

**2] Floating point:**

**3] String:**

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

**Ans:** An expression is a combination of a values and operators.

When expression is evaluated it gives result in a single value.

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

**Ans:** When we write an expression like 5+3 it evaluates to a single value.

Statement do not result in a single value.

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' = 'spamspamspam'

'spam' \* 3 = 'spamspamspam'

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

Ans: 100 is invalid becoz variable names do not begin with a numbers

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

**Ans:** int( ), float( ), str( )

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

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

**Ans:** 1] **Error:** can only concatenate str (not "int") to str

Here we are trying to concatenate str to integer so it

causes an error.

2] **Fixing error:** Rewrite it as 'I have eaten ' + '99' + ' burritos.'