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**

- **expression**

/ **expression**

* **expression**

6 **values**

2. What is the difference between string and variable?

**Variables are containers for storing data values and string is a data type**

3. Describe three different data types.

**Integer, string, float**

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

**An expression is a combination of operators and operands, and produces a value**

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

A **statement** is an instruction that the Python interpreter can execute. An **expression** is a combination of values, variables, and operators.

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? **Variable names can contain both letters and numbers, but they must begin with a letter.**

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

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

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

**Because python can only concatenate str to str. We can fix it putting 'I have eaten ' + str(99) + ' burritos.'**