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' - value

-87.8 - value

- - expression

/ - expression

+ - expression

6 - value

2. What is the difference between string and variable?

**String is a text/ value whereas a variable has a literal assigned to it.**

3. Describe three different data types.

**Float, String, Complex**

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

**An expression is made up of operators and operands. The expressions perform operations and give a value as an output.**

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

**An expression is an operator and a statement contains a variable, operator and a literal.**

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'

'spam' \* 3

**spamspamspamspamspamspam**

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

**Variables should start with a letter or an underscore, thus eggs is a valid variable name whereas 100 is invalid as it is starting with a number.**

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.'

**We cannot concatenate different data types. We need to typecast the integer into a string and then concatenate like:**

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