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.

\* **- mathematical operator**

'hello'**-String**

-87.8**-Integer**

- **- mathematical operator**

/ **- mathematical operator**

* **- mathematical operator**

6 **-Integer**

2. What is the difference between string and variable?

**A Variable is a container to store the data value whereas a string is a type of data that you can assign to a variable.**

3. Describe three different data types.

**Numeric, String and Boolean type**

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

**Expressions are made up of a combination of mathematical operators and variables/constants. All expressions return a value.**

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

**Here the variable, spam is assigned an integer value 10. It is a statement. Whereas expression is a combination of variables/constants and operators, and it returns a value.**

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

bacon = 22

bacon + 1

**bacon=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?

**The accepted rule for variable name doesn’t let numbers as a variable name. A variable name may contain alphabets. It can be alphanumeric but cannot be just numbers. Thus eggs is a valid variable name whereas 100 is not.**

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 an integer and strings. We can fix the above expression as shown below:**

**'I have eaten ' + ‘99’ + ' burritos.'(add quotation mark around 99)**