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?

**Variable is an identifier which will be used to store data. Variable can store string. Variable is the name of location in the primary memory of computer.**

**String is a data type for a sequence of character.**

3. Describe three different data types.

**Number, String and Boolean**

4. What is an expression made up of? What do all expressions do?  
**Expression is the combination of operators and operands. Expression interpreted to produce some other value.**

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

**Expression: An expression evaluates to a value. (Assigning value 10 to spam variable. Assigning is an expression)**

**Statement: A statement executes something. (Spam = 10 is a statement)**

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?

**eggs is valid variable name because it starts with an alphabet, but 100 is invalid since variable name do not start 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 and str**

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

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

**Because we cannot add a Integer(number) with strings.**