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.

ANS : \* multiplication operator

'hello' is a String

-87.8 is float

- Substraction Operator

/ Division Oerator

* Addition Operator

6 is an integer

2. What is the difference between string and variable?

ANS: String is a collection of characters and valiable holds a value.

3. Describe three different data types.

ANS:

* String.
* List.
* Tuple.

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

ANS is made up of different variables and operators, expressions perform different operations like mathematical, comparison etc.

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

ANS: assignment statements assigns value to the variable while expression uses variable along with operators to perform various operations.

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

bacon = 22

ANS: 22

bacon + 1

ANS: 23

7. What should the values of the following two terms be?

ANS : 'spam' + 'spamspam' = spamspamspam

'spam' \* 3 = spamspamspam

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

ANS: variable always is a collection of characters and not numbers

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

ANS: int() for integer, float() for floating -point integer, str() is used for string value.

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

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

Concatenation can only happen with string not with int. 99 is an integer.