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.

\*

'hello'

-87.8

-

/

6

**Ans :** Values - ‘hello’, -87.8, 6

Elements - \*, -, /, +

2. What is the difference between string and variable?

**Ans :** String – String is the combination of multiple characters.

Variable - These are the names to which we can assign a value to.

3. Describe three different data types.

**Ans :** Integer, Float, String.

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

**Ans :** An expression is made up of Variables and operations or elements.

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

**Ans :** Expression is a combination of variables and operations which given values. Statements can be said which are been stated or assigned they don’t provide any value as output.

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

bacon = 22

bacon + 1

**Ans :** bacon = 22 value will remain same.

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

'spam' + 'spamspam'

'spam' \* 3

**Ans :** For both value will be ‘spamspamspam’

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

**Ans :** A variable is the one to which a value can be assigned but 100 itself being a value can’t be a variable.

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

**Ans :** int() function gives integer value.

float() gives float value.

Str() gives string value.

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

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

**Ans :** We cannot concatenate a string and an integer so we need to convert that integer value into string.

'I have eaten ' + ‘99’ + ' burritos.'