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?

Answer – Strings are text literals which doesn’t store any value at run time.

Variable store values at run time.

3. Describe three different data types.

Answer- int – store integer value, Float – store float value, str – store string value.

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

Answer – expression is made of any arithmetic operation. Expression is an executable code which perform some operation.

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

Answer – Expression perform mathematical operation and statement assign value to variable or perform if, else or loop.

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

bacon = 22

bacon + 1

Answer - 22

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?

Answer – Variable name can’t start numeric and special character except underscore.

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

Answer – int()

Float()

Str()

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

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

Answer- Because we are trying to concatenate string with number.

'I have eaten ' + ’99‘+ ' burritos.'