

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.

*** is expression**

'hello' is value

-87.8 is value

- is expression

/ is expression

+ is expression

2. What is the difference between string and variable?

String is a sequence of characters where as variable is a data container where data of different data types is stored.

3. Describe three different data types

Str – sequence of characters

Int – integer values

Float – decimal values

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

Expressions are mathematical operators used to make mathematical operations on given data types

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

Statements are used to assign values to a variable where as expressions are used to perform operations on top of assigned variables

6. After running the following code, what does the variable `bacon` contain? `bacon = 22` `bacon + 1`

In [1]:

```
bacon = 22
bacon +1
print(bacon) # will be 22 only
```

22

7. What should the values of the following two terms be? 'spam' + 'spamspam' 'spam' * 3

In [4]:

```
print('spam'*3, 'spam'+ 'spamspam')
```

spamspamspam spamspamspam

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

Since there is particular convection to name variable and you cannot use numerals to name a variable.

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

int(),str(),float()

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

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

Since you are adding two different data types we need to use str(99)

In [6]:

```
print('I have eaten ' + str(99) + ' burritos.')
```

I have eaten 99 burritos.

In []: