**Practice Questions**

1. Which of the following are operators, and which are values?

**Ans:**

\* - Arithmetic Operator, Operation - Multiplication

'hello' - value

-88.8 - value

- - Arithmetic Operator, Operation-Subtraction

/ - Arithmetic Operator, Operation-Division

+ - Arithmetic Operator, Operation-Addition

5 - value

2. Which of the following is a variable, and which is a string?

**Ans:**

spam - variable

'spam' - string

3. Name three data types.

**Ans:**

Integer, Floating Point, String data types

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

**Ans:**

Expression consists of values and operators (such as arithmetic operators) that eventually evaluate down to a single value.

5. This chapter introduced assignment statements, like spam = 10. What is

the difference between an expression and a statement?

**Ans:**

Expression evaluates down to a single value whereas a statement does not.

Such as in, spam = 10 . We are assigning a value of 10 to the variable name – spam.

6. What does the variable bacon contain after the following code runs?

bacon = 20

bacon + 1

**Ans:**

bacon = 20

As bacon+1 doesn’t reassign the value in bacon.

If you want to reassign / update the value in bacon. It should be done as follows:

bacon = 20

bacon+=1 or bacon = bacon + 1

7. What should the following two expressions evaluate to?

'spam' + 'spamspam'

'spam' \* 3

**Ans:**

These are examples for how we perform string concatenation and string replication in Python.

Both will generate an output as - spamspamspam

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

**Ans:**

Since 100 doesn’t follow naming conventions of a variable. A variable cannot start with a number.

9. What three functions can be used to get the integer, floating-point

number, or string version of a value?

**Ans:**

The int(), float(), str() will result into getting an integer , floating-point number and a string version when a value is passed through it.

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

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

**Ans:**

Since 99 is an integer and here we are using ‘+’ operator to concatenate the string so using an integer value in between two strings will throw an “Type Error”.

Correct way to write this is: ‘I have eaten’ + str(99) + ‘buritos’