**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?**

A variable can hold any data type int, string, float etc and can be reusable by calling it whenever required.

While string is one of the data type which is mainly used for reading and writing of text.

**3. Describe three different data types.**

Int – data type for integer numbers

Float - data type to store decimal numbers

String – data type for simple text

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

An expression is made up of values, variables, operator and function call. Expressions need to evaluate first then give the results.

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

A statement is an instruction that python interpreter can execute mean whatever code we write in our notebook is a statement while expression is a type of statement.

An expression is a combination of value, variable, operator and function call which finally results into a value.

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

**bacon = 22**

**bacon + 1**

bacon will still contain value 22

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

**'spam' + 'spamspam'**

**'spam' \* 3**

spamspamspam

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

In python, variable should start from either ‘\_’ or any alphabets. So you can’t have a variable which contain numbers or special characters at the start.

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

int(value) = for integer

float(value) = for floating numbers

str(value) = for string

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

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

You can’t concatenate integers with string so just convert int 99 to string.

‘I have eaten’ + str(99) + ‘burritos’