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 is a store of information, and a String is a type of information you would store in a Variable. A String is usually words, enclosed with "" or ‘’.

3. Describe three different data types.

* Numeric: In numeric data type we can have numeric values like integers, float, or can be complex number.
* String: It can be a collection of one or more characters and can be put in a single quote, double-quote or triple quote. No character data type exists in Python, a character is a string of length one. It is represented by the str class.
* Boolean: True or False these are two built-in values used as data type. It is denoted by the class bool.

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

An expression is a combination of operators and operands that is interpreted to produce some other value. If you ask Python to print an expression, the interpreter evaluates the expression and displays the result.

5. This assignment statements, like spam = 10. What is the difference between an

expression and a statement?

A combination of operands and operators is called an expression. The expression in Python produces some value or result after being interpreted by the Python interpreter. An expression in Python is very different from statements in Python. A statement is not evaluated for some results. A statement is used for creating variables or for displaying values.

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

bacon = 22

bacon + 1

The variable bacon contains 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?

Variable names can contain letters but variable names cannot begin with a number.

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

version of a value?

The int() , float() , and str( ) functions will return the integer, floating-point number, and string versions of the value passed to them.

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

‘I have eaten’ + 99 + ‘burritos.’ → 'I have eaten' + ' 99' + ' burritos'