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.

\*

This is multiple expression

'hello'

This is string

-87.8

This is float with negative value

-

This is subtraction expression

/

This is division expression



This is addition expression

6

This is positive integer

2. What is the difference between string and variable?

Variable is the placeholder for storing the values, whereas string could be type of value stored by the variable.

E.g. variable name is ‘email’ and ‘james@yahoo.com’ is the value stored in the variable

Email = ‘james@yahoo.com’ and the type of value is string.

3. Describe three different data types.

Three different data types are float, Integer, String and Boolean

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

An expression is the combination of values, operators, variables and calls to functions.

If we call print expression then 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?

For example spam = 10 is a statement which instruct the python interpreter to execute.

Interpreter evaluates the expression and then assign value 10 to variable spam.

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

bacon = 22

bacon + 1

Ans = 23

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

'spam' + 'spamspam'

Ans: spamspamspam

'spam' \* 3

Ans: spamspamspam

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

Ans in order to make the code more readable to the developer it is good idea to have proper variable names. Hence python provide the rule that in an assignment operator

Left side should be variable like eggs is valid whereas literal 100 is invalid.

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

1. Int()

2. float()

3. str()

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

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

Ans: it causes error because 99 is integer and we are trying to add integer with string. In order to fix this, we should rewrite it

‘I have eaten’ + str(99) + ‘burritos’