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.

\* - multiply operator

'hello' - string

-87.8 - float

- - subtraction operator

/ - division operator

* - addition operator

6 int

2. What is the difference between string and variable?

Variable is name given to the data in python and variable can have any datatype

String is one of data types in python

3. Describe three different data types.

Int – mutable , contains numbers

String – immutable, contain anything which is in “”

Float – mutable, contains decimal values

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

Expression is made up of variables , values and operators

On evaluation expressions return values that can be printed or delegated

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

Spam = 10 not required to be evaluated, simple assignment

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

bacon = 22

bacon + 1

bacon will contain 22, as bacon +1 is not assigned to bacon

the expression bacon +1 return a value of 23 which needs to be handled in order to retain it

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

'spam' + 'spamspam'

'spam' \* 3

Both will be - spamspamspam

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

Python does not allow numeric values as a variable name

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

Int()

Float()

Str()

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

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

It is trying to append string with int value

One way to do it is convert int 99 to string ‘99’

* I have eaten 99 burritos