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(String)

-87.8 > Value(integer)

- -> expression

/ -> expression

+ -> expression

6 > Value(int)

2. **What is the difference between string and variable?**

A String is a text string i.e ‘Hola’.Variable is something that stores data and that data can be anything or type like int,string,float,class etc..

Ex : a = “bcd”

Here “bcd” is String.

a = 123

And **a** is variable it can store anything !

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

Python Data types:

* Numeric
  + Integer
  + Float
  + Complex
* Boolean
* Set
* Dictionary
* Sequence
  + String
  + List
  + Tuple

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

Expression evaluates to some value. Expression can be part of statement.

Examples : “Hola”,1100, 1+1…etc.

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

Statement performs some action. Expression evaluates to some value. Expression can be part of statement. Statement is never part of an expression.

Spam = 10 is an expression.

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

bacon = 22

bacon + 1

it contains 22.

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

'spam' + 'spamspam'

'spam' \* 3

If you mean print then both will give an output : **spamspamspam**

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

Because it violates the rule of Assigning Variables.

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.'

We can concatenate strings only but here we have string and an int. In these case we use format to pass integers if 99 is dynamic or else we make it as one statement like print('I have eaten 99 burritos.')