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?

* Variable are used to store the data.(It’s a memory address)
* String is sequence of characters which will be enclosed either in single quotes or double quotes. String is data type.

Eg: a = “Hello”

Here a is variable and “Hello” is string.

3. Describe three different data types.

* Int – which is used for integer type of data. Eg: 1, 2, -1,4,8,0.
* String – sequence of characters enclosed in single or double quotes. Eg: “ “, ”hello”, ”2”
* Boolean – it has only truth values. (True or False)

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

**An expression is combination of values, variables, operators and calls to function.**

**An expression need to evaluate to return some result.**

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

**An expression will return some value whereas statement is just a standalone unit of execution and doesn’t return any value.**

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

bacon = 22

bacon + 1

**Value of bacon will be 22 but if you execute this code it returns 23**

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 name can start with alphabets and underscore(\_) but it shouldn’t start with numericals or any other special characters.**

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

**int() - to get integer, float() - to get floating point number and str() - to get string value.**

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

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

String value can be concatenated with string value only but in the given expression 99 is int value.

f"I have eaten {99} burritos”