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'  Values

-87.8 Values

- Expression

/ Expression

* Expression

6 Values

2. What is the difference between string and variable?

**Ans** - A String is simply a type of data that represents **text** while variable is a **name** that can refer to any value.

**For Example**

* Course = “I love Data Science”

Here course = variable and “I love Data Science” is string

Note – Quotes (Double or Single) are used to create string

3. Describe three different data types.

Ans – Three different data types are

* Numeric data types (Int, Float, complex)
* Boolean data type
* Sequence Type (Tuple, List)

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

**Ans** - An expression is a combination of **operators**, **constants** and **variable**.

All expressions evaluate to **single value.**

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

Ans – Expression is basically single piece of code that produces value and statement on other hand is entire line of code.

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

bacon = 22

bacon + 1

**Ans** - bacon = 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?

**Ans** - The **first letter** of a variable should be either a **letter** or an **underscore**.

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

* To get integer we will use **int ()** function**.**
* To get floating-point number we will use **float ()** function.
* To get string we will use **str ()** function.

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

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

**Ans** – Python can only concatenate str (not "int") to str.