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.

Ans- \* - expression

'hello' - value

-87.8 - value

- expression

/ expression

* expression

6 - value

2. What is the difference between string and variable?

Ans- A variable is the storehouse of the information and on the other hand string is the information that is stored in the variable. For example y = “madhav”, in this y is variable and madhav is string.

3. Describe three different data types.

Ans – Boolian type – Which consist of boolian value. Ex- True ,False.

Numeric Type – Which consist of int, float, complex number. Ex- 1, 5.66, etc

None type – Which just consist of num type value.

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

Ans- In some simpler terms, expression is just mere representation of values, they are made up of identifiers, literals, and operators. Expression help in representation of values.

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

Ans- Expression is a total representation of the variable, value, operations on the other hand statement is the direct command to do a task for ex- print(“madhav”).

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?

Ans- 'spam' + 'spamspam' - ‘spamspamsapm’

'spam' \* 3 - ‘spamspamsapm’

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

Ans- It is because it is forbidden by python to take number as a variable name.

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

Ans- int(), float() , str()

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

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

Ans- This expression is causing error because we cant concatenate a string with int. To fix it we can put 99 into quotes – “99”