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?

Ans.-Variable is the symbol, where we store the data in a program, whereas string is a type of data we use to fill up the variable.

3. Describe three different data types.

* Strings- A string is a collection of one or more characters put in a quote.
* Numbers – The number data type represents the data that has a numeric value. The numeric value can be an integer, floating number, or even complex number.
* Boolean- Boolean type provides two built-in values, True and False. These values are used to determine the given statement true or false

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

Ans.- An expression is made up of values, variables, and operators, and the expression is evaluated as per the primacy of its operators

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

Ans.- “like spam” is a statement and “10” is an expression.

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

bacon = 22

bacon + 1

Ans.- After running the code variable bacon would contain 22.

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

'spam' + 'spamspam'

'spam' \* 3

Ans.- ‘spamspamspam’

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

Ans.- A variable name cannot start with a number. A variable name can contain alphanumeric characters that’s why eggs is valid 100 is invalid.

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

Ans.- The int(), float(), and str() functions will evaluate the integer, floating-point number, and string versions of a value.

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

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

Ans.- 'I have eaten ' + str(99) + ' burritos.'