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.

\*

'hello'

-87.8

-

/

6

Ans : Values are ‘hello’, -87.8, 6 and expression are - \*, -, /, +

2. What is the difference between string and variable?

Ans : Variable is an identifier which we can store the value/data in a memory location and we can manipulate it when required ex – x = 10, y = 20

String is a data type and also a type of variable which are sequence of character which we used as single quote or in double quote ex – name = “Hari” or text = “Hello World”

3. Describe three different data types.

Ans : Three data types are integer, string, Boolean and list

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

Ans : Expression are made of combination of operators , variables and operand that is interpreted to produce some value. ex- add = a + b where add is variable to store expression value, a and are operand and + is operator which will add

Expression usually used as a variable to store the values.

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

Ans : Here we are assigning 10 to variable spam.

An expression will always return a value whereas statement is a piece of code which will not display any value

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

bacon = 22

bacon + 1

Ans : bacon will contain 22

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

'spam' + 'spamspam'

'spam' \* 3

Ans : 'spam' + 'spamspam' = ‘spamspamspam’

‘spam’ \* 3 = ‘spamspamspam’

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

Ans 100 is invalid because variable cannot start with number and it will throw error

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

Ans : Integer function = int(), Floating function = float(), string function = str()

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

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

Ans : Cannot concatenate str to int

Fixing is = 'I have eaten ' + ‘99’ + ' burritos.'

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