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: ‘hello’ : String

2. What is the difference between string and variable?

Ans : A Variable is stores the Information and String is the type of Information

Ex : a= “Data Scientist”

Here ‘a’ is the variable and “Data Scientist” is the string

3. Describe three different data types.

Ans: String, Boolean,Integer,Complex etc

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

Ans: Expression is any valid combination of operators, literals and variables

Ex : X=5,Y=10,C=15 here X,Y,C are the Variable and 5,10,15 are the values and “=” is the Operator

Types of Expressions: 1 Arithmetic 2 Relation 3 String etc

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

Ans : Expression : An Expression is a combination of values variables, operators and function calls that always returns a result value

Ex : X=5,Y=10,C=15 here X,Y,C are the Variable and 5,10,15 are the values and “=” is the Operator

Statement : A Statement is the executable unit of code that has an effect, like creating a variable value.

Ex : X=3 Executable unit

Print(X)

3 = Display the result

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?

'spam' + 'spamspam'

'spam' \* 3

Ans: spamspamspam'

'spamspamspam'

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

Ans : Variable names cannot begin with a number.

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 :Here 99 is the Integer we can’t conceatenate with integer.

'I have eaten burritos.'