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: /, +

2. What is the difference between string and variable?

Ans: String is a combination of words stored in a variable. E.g. “My name is Rohit Kumar” this is string. The variable X is used to store this string.

3. Describe three different data types.

Ans:

Integer: This contains positive or negative whole numbers.

Float: These are specified by a decimal point.

String: String is a collection to hold combination of characters.

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

Ans: An expression is a combination of variables, operators and it computes a value. E.g.

A=1, b=2

C=A+b

C=3

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

Ans: This is an assignment statement. Expression used to compute a value of variable however, statement is used to either assign or compare values.

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:

'spam' + 'spamspam' = ‘spamspamspam’

'spam' \* 3 = ‘spamspamspam’

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

Ans: Because variable cannot begin with integer, float or any number (Because values can’t be assigned to literal). Eggs is not a number so it is a valid variable.

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: Because integer cannot be concatenated with Strings.