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.

\* :- Multiplication

'hello' :- String

-87.8 :- Float

- :- Subtraction

/ : Division

* : - Addition

6 :- int

2. What is the difference between string and variable?

Ans:- Variable :- they can store some other values in it like string or int.

String:- Type of data which is stored in a variable .

3. Describe three different data types.

Ans:- int :- it include whole number, -ve of whole number including 0.

Float:- All the number which can be represented on number line are flot.

String:- strings in Python are arrays of bytes representing unicode characters.

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

Ans:- An expression is a combination of values, variables, operators, and calls to functions. Expressions need to be evaluated.

Expressions are combinations of values and operators and always evaluate down to a single value

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

Ans:-

Expression always returns a value and statement doesn’t.

Ex: expression :- function, Statement:- a =10

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

bacon = 22

bacon + 1

Ans:- 22

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

'spam' + 'spamspam'

'spam' \* 3

Ans:- ‘spamspamspam’ for both.

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

Ans:- A variable should not start with number so eggs is a valid variable and 100 is invalid.

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:- 99 is int so causing the issue. Fix :- 'I have eaten ' + ‘99’ + ' burritos.'