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: String is used to written in single and double quotes “”,’’ . whereas variable is like container which use to store data and call when needed vs required.

3. Describe three different data types.

List: the list is used for storing multiple data items in a single variable.

Integer: integer can store only numerical values.

Float: float can store only floating values such as 233.33, 22.2, etc.

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

Ans: Expression is made up of values, containers, and mathematical operators (operands) e.g   a = 2 + 3     and expressions are used to evaluate the values or represent the result on the screen.

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

Ans: Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.

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- Same result ‘spamspamspam’

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

Ans: because we can't start giving variable an integer name. if we, we should begin with, a string-like alphabet name then integer. e100 or eggs100 is valid

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

Ans: str(), int(), float()

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

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

Ans:  because 99 is an integer it cannot be concatenated with strings, if we have to concatenate it we need to do typecasting.