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?

a. String is usually word or group words enclosed inside quotes. Variable is placeholder to store the data belonging to any datatype.

3. Describe three different data types.

a. Integer, Float, String, Boolean, List

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

a. An expression is made of operators and operands based on language specific syntax. Expressions evaluates to a single value based on the operands and operators we gave

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

a. An expression is made of operators and operands based on language specific syntax whereas statement is just like a command that python interpreter executes like print.

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

bacon = 22

bacon + 1

a. The output would be 23

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

'spam' + 'spamspam' -------------🡪 'spamspamspam'

'spam' \* 3 -------------------🡪 'spamspamspam'

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

a. Variable names can begin with letter (lower or uppercase) or \_(underscore)

here eggs is beginning with letters so it is valid where as 100 is a number so it is invalid

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

a. integer – int()

Floating-point – float()

string – str()

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

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

1. We are getting error because 'I have eaten ' and ' burritos' are string type and 99 is integer type and we are trying to concatenate 2 different data types.

We can fix this by converting integer to string type i.e enclosing 99 in single quotes or by type casting str(99)





