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' --- Values

-87.8 --- Values

- --- Expression

/ --- Expression

* --- Expression

6 --- Values

2. What is the difference between string and variable?

Answer: In a Variable, we can store some information. A String is a type of information stored in a Variable.

3. Describe three different data types.

Answer:

1. Integer: Used to store whole numbers.
2. String: Used to store combination of Characters.
3. Boolean: Used where data is restricted to True/False.

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

Answer: A combination of values, variables and operators.

Expressions get evaluated by the interpreter and displays the result.

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

Answer: Expression is a combination of values, variables and operators which in return displays some result. But statements do not return any value. It only gives instructions.

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

bacon = 22

bacon + 1

Answer: 23

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

'spam' + 'spamspam'

'spam' \* 3

Answer:’spamspamspam’

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

Answer: A variable name cannot start with a digit. And ‘eggs’ is not a predefined word.

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

Answer: int, float and str

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

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

Answer: The above expression causes an error because it can only concatenate string with string value only not with any integer value.

We can fix this by below following ways:

'I have eaten ' + str(99) + ' burritos.'

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