

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.

\* -> EXPRESSIONS

'hello' -> VALUES

-87.8 -> VALUES

- -> EXPRESSIONS

/ -> EXPRESSIONS

+ -> EXPRESSIONS

6 -> VALUES

2. What is the difference between string and variable?

Variable is a store of information, while string is a type of information which can be stored in a variable

3. Describe three different data types.

Integer (int), String (str) & Boolean (bool). Integer is used for numeric data type, string is for text data type and boolean is used for Boolean data type (true or false).

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

An expression is a combination of operators and operands that is interpreted to produce some other value.

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

Assignment statements is a statement that assigns a value to a name (variable). In the case given, "spam" is a name. To the right of the assignment token is an expression which is evaluated by the Python interpreter and then assigned to the name.

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

```
bacon = 22
```

```
bacon + 1
```

23

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

`'spam' + 'spamspam'`

`'spam' * 3`

`'spamspamspam'`

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

Because variable name can't begin with number

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

`int()` for integer, `float()` for floating-point number & `str()` for string version of value

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

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

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