**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' - string

-87.8 - integer

- - expression

/ - expression

* - expression

6 - integer

**2. What is the difference between string and variable?**

A Variable is a store of information

String is a type of information you would store in a Variable. A String is usually words, enclosed with ""

**3. Describe three different data types.**

|  |  |  |
| --- | --- | --- |
| DataTypes | EX | **Explanation** |
| Floats | 2.2232 | Decimal no |
| Integers | 3.123456 | Whole no |
| Booleans | True,False (o,1) | Yes/No |

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

It is a combination of operators, constants and variables.

expression Statements Do Something

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

Expression- evaluates to a value

Statements - does something

**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 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?**

* Str()
* int()
* float()

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

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

99 is an integer it cannot be concatenated with strings