

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.

*	<b>Mathematical operators</b>
'hello'	<b>-String</b>
-87.8	<b>-Float</b>
-	
/	<b>-Mathematical operators</b>
+	<b>-Mathematical operators</b>
6	<b>-Integer</b>

2. What is the difference between string and variable?

**Answer: - Variables are symbols that you can use to store data in a program. You can think of them as an empty box that you fill with some data or value. Strings are data, so we can use them to fill up a variable. Declaring strings as variables can make it easier for us to work with strings throughout our Python programs.**

3. Describe three different data types.

**Answer: - Three different data types are string, Integer and Float**

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

**Answer: - An expression is a construct made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value. The expression in Python produces some value or result after being interpreted by the Python interpreter. An expression in Python is a combination of operators and operands.**

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

**Answer: - An expression evaluates to a single value. A statement does not.**

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' → 'spamspamspam'
```

```
'spam' * 3 → 'spamspamspam'
```

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

**Answer: - variable names must start with a letter (a-z, A-Z) or an underscore (\_). They cannot start with a number.**

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

**Answer: - The int(), float(), and str() functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.**

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

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

**Answer: - concatenation requires both operands to be of the same type.**

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