

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?

X= 10 (Variable)

"My name" (example of a string)

3. Describe three different data types.

String

List

Tuple

Dictionary

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

An **Expression** is a sequence or combination of values, [variables](#), [operators](#) and [function](#) calls that always produces or returns a result value.

Example: $x = 5$, $y = 3$, $z = x + y$

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

An **Expression** always evaluates to a value. $A+16=20$

A **statement** does something, like creating a variable or displaying a value, it only does whatever the statement says.

$X=20$

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

```
bacon = 22
```

```
bacon + 1
```

22

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

```
'spam' + 'spamsam' = spamsamsam
```

```
'spam' * 3 = spamsamsam
```

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

We can not assign an integer as a variable name.

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

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.'
```

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