The format() function

It is desirable to print program output in a nicely formatted manner. The <code>format()</code> function enables us to do that. It also enables us to combine string and numerical values together. Suppose we want to print a string that contains two variables that we wish to format and print: The syntax is as follows: '----{0}--- {1}----'.format(value1, value2) The dashes are any string text that we wish to display. value1 corresponds to the index value of 0 and value2 corresponds to the index value of 1. Therefore the first curly brace is replaced by value1 and the second curly brace is replaced by value2.

If we switch the curly braces with 0 and 1 as shown below '----{1}---- {0}-----'.format(value1, value2) then, the first curly brace will be replaced by value2 and the second curly brace will be replaced by value1

```
In [2]:
```

25 is the square of 5 and 9 is the square of 3 3 is the square

In [6]:

```
You can use the format() function to format float values with precision.

For example, use {0:0.3f} to format the value to 3 decimal places.

'''

print the value of 33 divided by 7 formatted to four decimal places

'''

x = 33

y = 33/7

print('The quotient of {0} is {1:0.4f}'.format(x, y))
```

The quotient of 33 is 4.7143

In [3]:

```
The `,` can be used as a separator together with the `format()` function to display numerical values  \begin{array}{c} x = 1000005 \\ y = x/1000 \\ \end{array}  print('The square root of {0} is {1:,.3f}'.format(x, y)) # Note the use of a comma
```

The square root of 1000005 is 1,000.005