

# Writing a Python Script

# Our First Program

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**Convert a temperature given in degrees Fahrenheit to Celsius**

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$$t_C = (t_F - 32) \times \frac{5}{9}$$

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$t_C$ : degrees Celsius

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$$t_C = (t_F - 32) \times \frac{5}{9}$$

$t_C$ : degrees Celsius

$t_F$ : degrees Fahrenheit

```
>>> tF = 50
```

## Convert a temperature given in degrees Fahrenheit to Celsius

$$t_C = (t_F - 32) \times \frac{5}{9}$$

$t_C$ : degrees Celsius

$t_F$ : degrees Fahrenheit

```
>>> tF = 50
```

```
>>> tC = ?
```



# Converting to Kelvins

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$$t_K = t_C - 273.15$$

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$$t_K = t_C - 273.15$$

$t_K$ : temperature in Kelvins

# Basic Program Structure

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```
x = (input / 56.7) ** 2.5
y = x + 57.0 % 6
z = (x + y) / 2.0
z = z + 4 * x ** 2
```

# Basic Program Structure

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```
x = (input / 56.7) ** 2.5  
y = x + 57.0 % 6  
z = (x + y) / 2.0  
z = z + 4 * x ** 2
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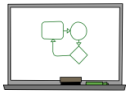
# Developer's Cycle

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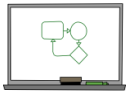
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