
Tempyrature

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TEMPYRATURE

1.1 Converter

class tempyrature.tempyrature.**Converter**

Bases: object

A simple temperature converter.

celsius2fahrenheit() → float

Converts celsius to fahrenheit.

Parameters

celsius (*float*) – The celsius temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> celsius2fahrenheit(25.0)
77.0
```

1.1.1 Formula

$$\text{fahrenheit} = 1.8 * \text{celsius} + 32$$

celsius2kelvin() → float

Converts celsius to kelvin.

Parameters

celsius (*float*) – The celsius temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> celsius2kelvin(10.0)
283.15
```

1.1.2 Formula

$\text{kelvin} = \text{celsius} + 273.15$

celsius2rankine() → float

Converts celsius to rankine.

Parameters

celsius (*float*) – The celsius temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> celsius2rankine(10.0)
509.66999999999996
```

1.1.3 Formula

$\text{rankine} = (\text{celsius} + 273.15) * 9/5$

fahrenheit2celsius() → float

Converts fahrenheit to celsius.

Parameters

fahrenheit (*float*) – The fahrenheit temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> fahrenheit2celsius(77.0)
25.0
```

1.1.4 Formula

$\text{celsius} = (\text{fahrenheit} - 32) / 1.8$

fahrenheit2kelvin() → float

Converts fahrenheit to kelvin.

Parameters

fahrenheit (*float*) – The fahrenheit temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> fahrenheit2kelvin(80.0)
299.81666666666666
```

1.1.5 Formula

$\text{kelvin} = 273.15 + ((\text{fahrenheit} - 32.0) * (5.0/9.0))$

fahrenheit2rankine() → float

Converts fahrenheit to rankine.

Parameters

fahrenheit (*float*) – The fahrenheit temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> fahrenheit2rankine(104.0)
563.67000000000001
```

1.1.6 Formula

$\text{rankine} = \text{fahrenheit} + 459.67$

kelvin2celsius() → float

Converts kelvin to celsius.

Parameters

kelvin (*float*) – The kelvin temperature to convert.

Returns

The converted temperature.

Return type
float

Examples

```
>>> kelvin2celsius(283.0)
9.85000000000000023
```

1.1.7 Formula

$\text{celsius} = \text{kelvin} - 273.15$

kelvin2fahrenheit() → float

Converts kelvin to fahrenheit.

Parameters

kelvin (*float*) – The kelvin temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> kelvin2fahrenheit(299.81666666666666)
80.000000000000003
```

1.1.8 Formula

$\text{fahrenheit} = (\text{kelvin} - 273.15) * 9/5 + 32$

kelvin2rankine() → float

Converts kelvin to rankine.

Parameters

kelvin (*float*) – The kelvin temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> kelvin2rankine(313.15000000000003)
563.67000000000001
```

1.1.9 Formula

rankine = kelvin * 9/5

rankine2celsius() → float

Converts rankine to celsius.

Parameters

rankine (*float*) – The rankine temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> rankine2celsius(509.66999999999996)
10.0
```

1.1.10 Formula

celsius = rankine * 5/9 - 273.15

rankine2fahrenheit() → float

Converts rankine to fahrenheit.

Parameters

rankine (*float*) – The rankine temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> rankine2fahrenheit(563.6700000000001)
104.00000000000006
```

1.1.11 Formula

$\text{fahrenheit} = \text{rankine} - 459.67$

rankine2kelvin() → float

Converts rankine to kelvin.

Parameters

rankine (*float*) – The rankine temperature to convert.

Returns

The converted temperature.

Return type

float

Examples

```
>>> rankine2kelvin(563.67000000000001)
313.150000000000003
```

1.1.12 Formula

$\text{kelvin} = \text{rankine} * 5/9$

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