

---

NAME

ConversionsUtil

## SYNOPSIS

```
use ConversionsUtil;

use ConversionsUtil qw(:math);

use ConversionsUtil qw(:all);
```

## DESCRIPTION

ConversionsUtil module provides the following functions:

BinaryToDecimal, BinaryToHexadecimal, DecimalToBinary, DecimalToHexadecimal, DecimalToOctal, DegreesToRadians, HexadecimalToBinary, HexadecimalToDecimal, HexadecimalToOctal, OctalToDecimal, OctalToHexadecimal, RadiansToDegrees, StringToBinary, StringToHexadecimal

## FUNCTIONS

## BinaryToDecimal

```
$Decimal = BinaryToDecimal($Binary);
```

Converts a *Binary* string to Decimal string.

## BinaryToHexadecimal

```
$Hexadecimal = BinaryToHexadecimal($Binary);
```

Converts a *Binary* string to Hexadecimal string.

## DecimalToBinary

```
$Binary = DecimalToBinary($Decimal);
```

Converts a *Decimal* string to Binary string.

## DecimalToHexadecimal

```
$Hexadecimal = DecimalToHexadecimal($Decimal);
```

Converts a *Decimal* string to Hexadecimal string.

## DecimalToOctal

```
$Octal = DecimalToOctal($Decimal);
```

Converts a *Decimal* string to Octal string.

## DegreesToRadians

```
$Radians = DegreesToRadians($Degrees, [ $DoNotWrapValue ] );
```

Converts degrees to radians in the range from 0 to 2PI or to corresponding radians without wrapping the converted value to 0 to 2PI. Default is to wrap the converted value.

## HexadecimalToBinary

```
$Binary = HexadecimalToBinary($Hexadecimal);
```

Converts a *Hexadecimal* string to Binary string.

## HexadecimalToDecimal

```
$Decimal = HexadecimalToDecimal($Hexadecimal);
```

Converts a *Hexadecimal* string to Decimal string.

## HexadecimalToOctal

```
$Octal = HexadecimalToOctal($Hexadecimal);
```

Converts a *Hexadecimal* string to Octal string.

#### OctalToDecimal

```
$Decimal = OctalToDecimal($Octal);
```

Converts a *Octal* string to Decimal string.

#### OctalToHexadecimal

```
$Hexadecimal = OctalToHexadecimal($Octal);
```

Converts a *Octal* string to Hexadecimal string.

#### RadiansToDegrees

```
$Degrees = RadiansToDegrees($Radians, [$DoNotWrapValue]);
```

Converts radians to degrees in the range from 0 to 360 or to corresponding degrees without wrapping the converted value to 0 to 360. Default is to wrap the converted value.

#### StringToBinary

```
$BinaryString = StringToBinary($String, [$UseReverseBitOrder]);
```

Converts specified *String* into a Binarystring. Going from left to right, two ways of arranging bits inside each byte are available: Most Significant Bits (MSB) first or Least Significant Bits (LSB) first. Default is MSB corresponding to descending bits order (PerlSpeak) inside each packed byte (Most significant bits first).

#### StringToHexadecimal

```
$HexadecimalString = StringToHexadecimal($String,  
                                           [$UseReverseBitOrder]);
```

Convert string into a hexadecimal string. Two ways of arranging nybbles (pair of 4 bits in each byte) are available: high nybbles first or low nybbles first. Default is MSB corresponding to high nybbles (PerlSpeak) first. Low and high nybbles correspond to pair of a low and high four bits in a byte.

#### AUTHOR

Manish Sud <msud@san.rr.com>

#### SEE ALSO

Constants.pm, MathUtil.pm

#### COPYRIGHT

Copyright (C) 2019 Manish Sud. All rights reserved.

This file is part of MayaChemTools.

MayaChemTools is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.