### 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 Significat Bits (MSB) first or Least Significat Bits (LSB) first. Default is MSB corresponding to descending bits order (PerlSpeak) inside each each packed byte (Most singificat bits first).

### StringToHexadecimal

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.

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### SEE ALSO

Constants.pm, MathUtil.pm

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