Example

```
String encodedString = "SWdvciBpcyBncmVhdCE="
Print Base64Decode(encodedString)
  Igor is great!
```

See Also

Base64Encode, **URLRequest**

Base64Encode

Base64Encode(*inputStr*)

The Base64Encode function returns a copy of *inputStr* encoded as Base64.

The algorithm used to encode Base64-encoded data is defined in RFC 4648 (http://www.ietf.org/rfc/rfc4648.txt).

For an explanation of Base64 encoding, see https://en.wikipedia.org/wiki/Base64.

The Base64Encode function was added in Igor Pro 8.00.

Example

```
String theString = "Igor is great!"
Print Base64Encode(theString)
  SWdvciBpcyBncmVhdCE=
```

See Also

Base64Decode, **URLRequest**

Beep

Beep

The Beep operation plays the current alert sound (*Macintosh*) or the system beep sound (*Windows*).

Besseli

Besseli(*n*,*z*)

The Besseli function returns the modified Bessel function of the first kind, I*n*(*z*), of order *n* and argument *z*. Replaces the bessI function, which is supported for backwards compatibility only.

If *z* is real, Besseli returns a real value, which means that if *z* is also negative, it returns NaN unless *n* is an integer.

For complex *z* a complex value is returned, and there are no restrictions on *z* except for possible overflow.

Details

The calculation is performed using the SLATEC library. The function supports fractional and negative orders *n*, as well as real or complex arguments *z*.

See Also

The **Besselj**, **Besselk**, and **Bessely** functions.

Besselj

Besselj(*n*,*z*)

The Besselj function returns the Bessel function of the first kind, J*n* (*z*), of order *n* and argument *z*. Replaces the bessJ function, which is supported for backwards compatibility only.

If *z* is real, Besselj returns a real value, which means that if *z* is also negative, it returns NaN unless *n* is an integer.

For complex *z* a complex value is returned, and there are no restrictions on *z* except for possible overflow.

Details

The calculation is performed using the SLATEC library. The function supports fractional and negative orders *n*, as well as real or complex arguments *z*.

See Also

The **Besseli**, **Besselk**, and **Bessely** functions.