

Big Number Functions

Common functions with support for Java BigDecimal sized numbers. All functions will take in and return strings as the Appian decimal data type does not have enough precision.

Big Sum Function

Adds all given numbers to return their sum.

Syntax

```
bigSum(addend)
```

Inputs

Input	Data Type	Required	Multiple	Description
Addend	String	Yes	Yes	A number or list of numbers that will be added into the final sum.

Returns

String

Big Product Function

Returns the product of the specified numbers.

Syntax

```
bigProduct(factors)
```

Inputs

Input	Data Type	Required	Multiple	Description
Factors	String	Yes	Yes	A number or set of numbers that will be factored into the final product.

Returns

String

Big Quotient Function

Returns the quotient when numerator is divided by the denominator.

Syntax

```
bigQuotient(numerator, denominator)
```

Inputs

Input	Data Type	Required	Multiple	Description
Numerator	String	Yes	No	The numerator of the quotient, or the number that is

Input	Data Type	Required	Multiple	Description
Denominator	String	Yes	No	divided. The denominator of the quotient, or the number to divide by.

Returns

String

Big Round Function

Rounds off the number to the specified number of decimals.

Syntax

```
bigRound(number, decimals)
```

Inputs

Input	Data Type	Required	Multiple	Description
Number	String	Yes	No	The number that will be rounded.
Decimals	String	No	No	Determines the digit or place to which the number will be rounded to the nearest $10^{(-\text{num_digits})}$. 2 is default.

Returns

String

Big Convert Function

Returns each of the inputs multiplied by the conversion rate.

Syntax

```
bigConvert(numbers, rate)
```

Inputs

Input	Data Type	Required	Multiple	Description
Numbers	String	Yes	Yes	A set of numbers to convert.
Rate	String	Yes	Yes	A conversion rate to multiply against each of the numbers.

Returns

List of String

Big Gt Function

Returns boolean if the number1 is greater than number 2.

Syntax

```
bigGt(number1, number2, isEqual)
```

Inputs

Input	Data Type	Required	Multiple	Description
Number1	String	Yes	No	First number to compare against
Number2	String	Yes	No	Second number to compare against
isEqual	Boolean	No	No	Set true for \geq and set false or null for $>$

Returns

Boolean

Big Lt Function

Returns boolean if the number1 is less than number 2.

Syntax

```
bigLt(number1, number2, isEqual)
```

Inputs

Input	Data Type	Required	Multiple	Description
number1	String	Yes	No	First number to compare against
number2	String	Yes	No	Second number to compare against
isEqual	Boolean	No	No	Set true for \leq and set false or null for $<$

Returns

Boolean

Big Mod Function

Returns the remainder of dividend when divided by the divisor.

Syntax

```
bigmod( dividend, divisor)
```

Inputs

Input	Data Type	Required	Multiple	Description
dividend	String	Yes	Yes	The number that will serve as the dividend in the modulus calculation.
divisor	String	Yes	Yes	The number that will serve as the divisor or base in the modulus calculation.

Returns

List of String

Big ABS Function

Returns the absolute value(s) of the specified number(s).

Syntax

```
bigabs( number )
```

Inputs

Input	Data Type	Required	Multiple	Description
number	String	Yes	Yes	The number the absolute value(s) of which will be returned.

Returns

List of String

Big Trunc Function

Truncates a decimal number to the specified number of places after the decimal point.

Syntax

```
bigtrunc( value, numberOfDecimals )
```

Inputs

Input	Data Type	Required	Multiple	Description
value	String	Yes	No	A decimal number.
numberOfDecimals	String	Yes	No	The number of places after the decimal point to which the number should be truncated.

Returns

String

Big ToString Function

Converts a decimal number to a string to be used in the Big Number Functions Plug-in.

Note: precision can be lost for values that cannot be accurately represented in a java double.

Syntax

```
bigtoString( decimal )
```

Inputs

Input	Data Type	Required	Multiple	Description
decimal	Number(Decimal)	Yes	No	A decimal number to be converted.

Returns

String
