| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [length](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#length) | Returns the length of a string | ShowMyEmail.dialog |
| [replace](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#replace) | Replace a substring with the specified string, and return the updated string. case sensitive |  |
| [replaceIgnoreCase](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#replaceignorecase) | Replace a substring with the specified string, and return the updated string. Case in-sensitive |  |
| [split](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#split) | Returns an array that contains substrings based on the delimiter specified. |  |
| [substring](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#substring) | Returns characters from a string. Substring(sourceString, startPos, endPos). startPos cannot be less than 0. endPos greater than source strings length will be taken as the max length of the string |  |
| [toLower](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#tolower) | Convert a string to all upper case characters | EmailDialog.lg |
| [toUpper](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#toupper) | Convert a string to all lower case characters | EmailDialog.lg |
| [trim](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#trim) | Remove leading and trailing white spaces from a string |  |
| [addOrdinal](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#addordinal) | Return the ordinal number of the input number | EmailDialog.lg |
| [endsWith](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#endswith) | Check whether a string ends with a specific substring. Return true when the substring is found, or return false when not found. This function is not case-sensitive. |  |
| [startsWith](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#startswith) | Check whether a string starts with a specific substring. Return true when the substring is found, or return false when not found. This function is not case-sensitive. |  |
| [countWord](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#countword) | Return the number of words in the given string |  |
| [concat](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#concat) | Combine two or more strings and return the resulting string | ReplyMyEmail.dialog |
| [newGuid](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#newguid) | Return a new Guid string |  |
| [indexOf](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#indexof) | Return the starting position or index value for a substring. This function is not case-sensitive, and indexes start with the number 0. |  |
| [lastIndexOf](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#lastindexof) | Return the starting position or index value for the last occurrence of a substring. This function is not case-sensitive, and indexes start with the number 0. |  |

Collection functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [contains](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#contains) | Works to find an item in a string or to find an item in an array or to find a parameter in a complex object. E.g. contains(‘hello world, ‘hello); contains([‘1’, ‘2’], ‘1’); contains({“foo”:”bar”}, “foo”) | Findmycontact.dialog |
| [empty](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#empty) | Check if the collection is empty |  |
| [first](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#first) | Returns the first item from the collection |  |
| [join](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#join) | Return a string that has all the items from an array and has each character separated by a delimiter. Join(collection, delimiter). Join(createArray(‘a’,’b’), ‘.’) = “a.b” |  |
| [last](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#last) | Returns the last item from the collection |  |
| [count](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#count) | Returns the number of items in the collection | EmailDialog.lg |
| [foreach](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#foreach) | Operate on each element and return the new collection |  |
| [union](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#union) | Return a collection that has all the items from the specified collections |  |
| [skip](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#skip) | Remove items from the front of a collection, and return all the otheritems |  |
| [take](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#take) | Return items from the front of a collection |  |
| [intersection](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#intersection) | Return a collection that has only the common items across the specified collections |  |
| [subArray](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#subarray) | Returns a sub-array from specified start and end position. Index values start with the number 0. |  |

Logical comparison functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [and](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#and) | Logical and. Returns true if all specified expressions evaluate to true. |  |
| [equals](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#equals) | Comparison equal. Returns true if specified values are equal | Shoumylastpage.dialog |
| [greater](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#greater) | Comparison greater than | EmailDialog.lg |
| [greaterOrEquals](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#greaterorequals) | Comparison greater than or equal to. greaterOrEquals(exp1, exp2) |  |
| [if](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#if) | if(exp, valueIfTrue, valueIfFalse) |  |
| [less](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#less) | Comparison less than opearation | EmailDialog.lg |
| [lessOrEquals](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#lessorequals) | Comparison less than or equal operation |  |
| [not](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#not) | Logical not opearator | Findmycontact.dialog |
| [or](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#or) | Logical OR opearation. | GetRecipientFromGraph.dialog |
| [exists](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#exists) | Evaluates an expression for truthiness |  |

Conversion functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [float](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#float) | Return floating point representation of the specified string or the string itself if conversion is not possible |  |
| [int](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#int) | Return integer representation of the specified string or the string itself if conversion is not possible | EmailDialog.lg |
| [string](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#string) | Return string version of the specified value |  |
| [bool](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#bool) | Return Boolean representation of the specified string. Bool(‘true’), bool(1) |  |
| [createArray](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#createarray) | Create an array from multiple inputs |  |
| [json](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#json) | Return the JavaScript Object Notation (JSON) type value or object for a string or XML. |  |
| [array](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#array) | Return an array from a single specified input. For multiple inputs, see [createArray](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#createarray). |  |
| [base64](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#base64) | Return the base64-encoded version for a string. |  |
| [base64ToBinary](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#base64tobinary) | Return the binary version for a base64-encoded string. |  |
| [base64ToString](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#base64tostring) | Return thr string version for a base64-encoded string. |  |
| [binary](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#binary) | Return the binary version for an input value. |  |
| [dataUri](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#datauri) | Return the URI for an input value. |  |
| [dataUriToBinary](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#datauritobinary) | Return the binary version of a data URI. |  |
| [dataUriToString](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#dateuritostring) | Return the string version of a data URI. |  |
| [uriComponent](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#uricomponent) | Return the URI-encoded version for an input value by replacing URL-unsafe characters with escape characters. |  |
| [uriComponentToBinary](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#uricomponenttobinary) | Return the binary version for a URI-encoded string. |  |
| [uriComponentToString](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#uricomponenttostring) | Return the string version for a URI-encoded string. |  |
| [xml](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#xml) | Return the XML version for a string. |  |

Math functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [add](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#add) | Mathematical and. Accepts two parameters | EmailDialog.lg |
| [div](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#div) | Mathematical division | EmailDialog.lg |
| [max](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#max) | Returns the largest value from a collection |  |
| [min](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#min) | Returns the smallest value from a collection |  |
| [mod](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#mod) | Returns remainder from dividing two numbers |  |
| [mul](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#mul) | Mathematical multiplication |  |
| [rand](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#rand) | Returns a random number between specified min and max value – rand(<minValue>, <maxValue>) |  |
| [sub](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#sub) | Mathematical subtraction |  |
| [sum](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#sum) | Returns sum of numbers in an array |  |
| [range](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#range) | Return an integer array that starts from a specified integer. |  |
| [exp](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#exp) | Exponentiation function. Exp(base, exponent) |  |

Date and time functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [addDays](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#adddays) | Add number of specified days to a given timestamp |  |
| [addHours](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#addhours) | Add specified number of hours to a given timestamp |  |
| [addMinutes](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#addminutes) | Add specified number of minutes to a given timestamp |  |
| [addSeconds](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#addseconds) | Add specified number of seconds to a given timestamp |  |
| [dayOfMonth](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#dayofmonth) | Returns day of month for a given timestamp or timex expression. |  |
| [dayOfWeek](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#dayofweek) | Returns day of the week for a given timestamp |  |
| [dayOfYear](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#dayofyear) | Returns day of the year for a given timestamp |  |
| [formatDateTime](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#formatdatetime) | Return a timestamp in the specified format. |  |
| [subtractFromTime](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#subtractfromtime) | Subtract a number of time units from a timestamp. |  |
| [utcNow](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#utcnow) | Returns current timestamp as string | ReplyMyEmail.dialog |
| [dateReadBack](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#datereadback) | Uses the date-time library to provide a date readback. |  |
| [month](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#month) | Returns the month of given timestamp |  |
| [date](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#date) | Returns date for a given timestamp |  |
| [year](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#year) | Returns year for the given timestamp |  |
| [getTimeOfDay](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#gettimeofday) | Returns time of day for a given timestamp (midnight = 12AM, morning = 12:01AM – 11:59PM, noon = 12PM, afternoon = 12:01PM -05:59PM, evening = 06:00PM – 10:00PM, night = 10:01PM – 11:59PM) |  |
| [getFutureTime](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#getfuturetime) | Return the current timestamp plus a specified time units. |  |
| [getPastTime](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#getpasttime) | Return the current timestamp minus a specified time units. |  |
| [addToTime](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#addtotime) | Add a number of time units to a timestamp. |  |
| [convertFromUTC](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#convertfromutc) | Convert a timestamp from Universal Time Coordinated(UTC). | ReplyMyEmail.dialog |
| [convertToUTC](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#converttoutc) | Convert a timestamp To Universal Time Coordinated(UTC). |  |
| [startOfDay](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#startofday) | Return the start of the day for a timestamp. |  |
| [startOfHour](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#startofhour) | Return the start of the hour for a timestamp. |  |
| [startOfMonth](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#startofmonth) | Return the start of the month for a timestamp. |  |
| [ticks](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#ticks) | Return the ticks property value for a specified timestamp. |  |

URI parsing functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [uriHost](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#urihost) | Return the host value for a uniform resource identifier(URI). | GetMyEmailFrom  Graph.dialog |
| [uriPath](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#uripath) | Return the path value for a unifor resource identifier(URI). | GetMyEmailFrom  Graph.dialog |
| [uriPathAndQuery](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#uripathandquery) | Rtuen the path and query values for a uniform resource identifier(URI). | GetMyEmailFrom  Graph.dialog |
| [uriPort](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#uriport) | Return the port value for a uniform resource identifier(URI). | GetMyEmailFrom  Graph.dialog |
| [uriQuery](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#uriquery) | Return the query value for a uniform resouce identifier(URI). | GetMyEmailFrom  Graph.dialog |
| [uriScheme](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#urischeme) | Return the scheme value for a uniform resource identifier(uri). | GetMyEmailFrom  Graph.dialog |

Object manipulation and construction functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [addProperty](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#addproperty) | Add a property and its value, or name-value pair, to a JSON object abd return the updated object. |  |
| [removeProperty](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#removeproperty) | Remove a property from JSON object and retuen the updated object. |  |
| [setProperty](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#setproperty) | Set the value for a JSON object's property and return the updated object. |  |
| [getProperty](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#getproperty) | Return the value of the given property in a JSON object. |  |
| [coalesce](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#coalesce) | Return the first non-null value from one or more parameters. |  |
| [xPath](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#xpath) | Check XML for nodes or values that match an XPath(XML Path Language) expression, and return the matching nodes or values. |  |
| [setPathToValue](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#setpathtovalue) | Ensure a path in memory exists and set the leaf to a value. |  |

Regex functions

| **Function** | **Explanation** | **Sample** |
| --- | --- | --- |
| [isMatch](vscode-resource://c%3A/Users/hond/Desktop/Expresison.md#ismatch) | test a given string ia match a common regex pattern | MyEmailBot.main.dialog |