Manipulating global variables

On this page

Checking an existing global variable

You can check if a global variable is defined in an environment by calling the **isGlobalVariable(String variableName)** method

If the global variable specified by the given variable name is present in the scripting environment, this method will return true. Otherwise, it returns false.

```
boolean isGlobalVariable(String variableName)
```

The following code fragment shows how to check if a global variable, e.g., GLOBAL_COUNT, is defined through ALH API.

```
ALH.isGlobalVariable("GLOBAL_COUNT");        // Returns true or false.
```

Getting a value from a global variable

During the execution of a model, you can obtain a value of a global variable, which has already been defined, by calling getGlobalVariable(String variableName) of the ALH API. This method returns a Java object, which is the value of the global variable specified by the given variable name.

```
object getGlobalVariable(String variableName)
```

The example code is as follows:

```
var a = ALH.getGlobalVariable("GLOBAL_COUNT") + 1
```

> **Note**
> You can obtain the value of a global variable directly by using its name.
>
> var a = GLOBAL_COUNT + 1;

Adding a value to a global variable

A global variable is a variable that is accessible from any session in the same execution. You can use ALH API to create a global variable and specify its value by calling ALH.setGlobalVariable(String variableName, Object value).
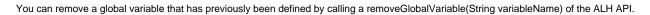
```
void setGlobalVariable(String variableName, Object value)
```

The code example is as follows

```
ALH.setGlobalVariable("GLOBAL_COUNT", 1);
```

The example code assigns 1 to a global variable named GLOBAL_COUNT. If the global variable with the given name does not exist, this method will create a new global variable with the same name and add the value to it.

Removing a defined global variable

You can remove a global variable that has previously been defined by calling a removeGlobalVariable(String variableName) of the ALH API.

```
void removeGlobalVariable(String variableName)
```

The following code fragment shows how to remove a global variable, e.g., *GLOBAL_COUNT*, that was previously defined through ALH API.

```
ALH.removeGlobalVariable("GLOBAL_COUNT");
```