UML Example

In the picture below, an activity diagram with Boolean operations and statements is shown. The action state **Boolean statements, expressions, and operations** takes the input object `bIn` with Boolean attributes and two strings as input. The output of the Boolean statements and operations will be stored in the output object `bOut`.

Figure: Boolean Operations
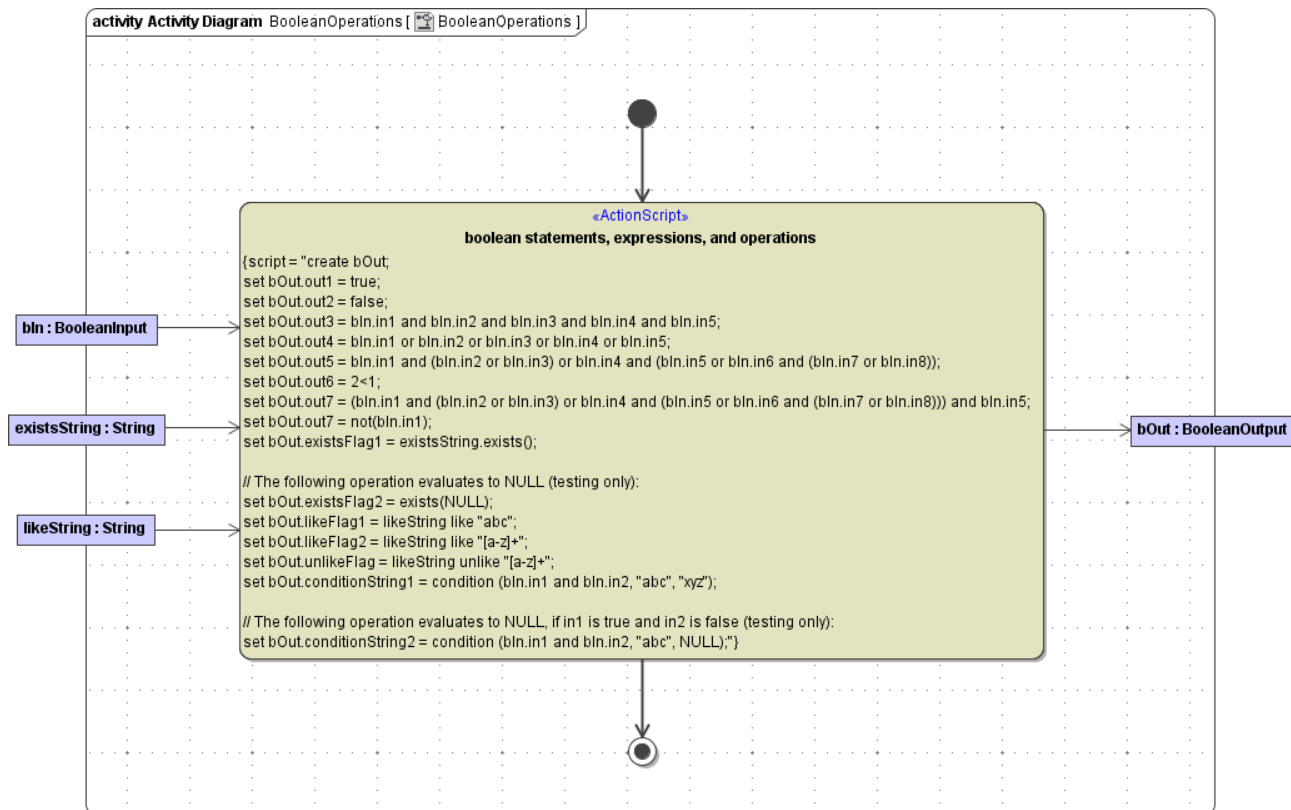
```
create bOut;
set bOut.out1 = true;
set bOut.out2 = false;
set bOut.out3 = bIn.in1 and bIn.in2 and bIn.in3 and bIn.in4 and bIn.in5;
set bOut.out4 = bIn.in1 or bIn.in2 or bIn.in3 or bIn.in4 or bIn.in5;
set bOut.out5 = bIn.in1 and (bIn.in2 or bIn.in3) or bIn.in4 and (bIn.in5 or bIn.in6 and (bIn.in7 or bIn.in8));
set bOut.out6 = 2<1;
set bOut.out7 = (bIn.in1 and (bIn.in2 or bIn.in3) or bIn.in4 and (bIn.in5 or bIn.in6 and (bIn.in7 or bIn.in8)))
and bIn.in5;
set bOut.out7 = not(bIn.in1);
set bOut.existsFlag1 = existsString.exists();

// The following operation evaluates to NULL (testing only):
set bOut.existsFlag2 = exists(NULL);
set bOut.likeFlag1 = likeString like "abc";
set bOut.likeFlag2 = likeString like "[a-z]+";
set bOut.conditionString1 = condition (bIn.in1 and bIn.in2, "abc", "xyz");

// The following operation evaluates to NULL, if in1 is true and in2 is false (testing only):
set bOut.conditionString2 = condition (bIn.in1 and bIn.in2, "abc", NULL);
```
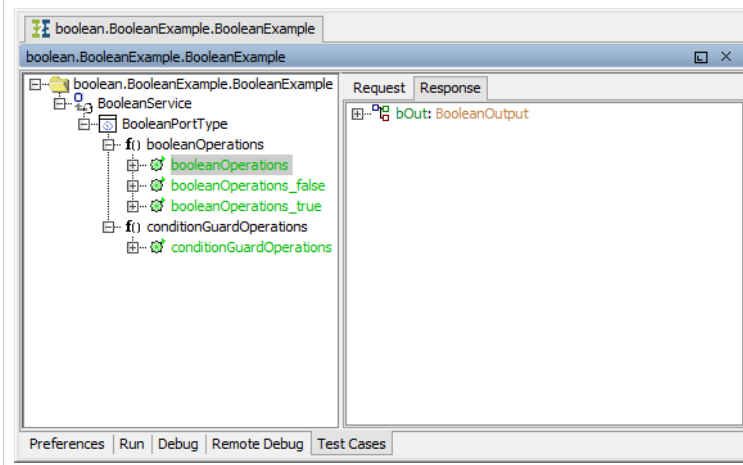
In the SOAP Test Tool, you can create a test case to test the Boolean statements and operations of the following action script that has been defined in the action state **Boolean statements, expressions, and operations**.

The condition `bIn.in1` and `bIn.in2` in the last condition statement above evaluates to false, and `NULL` will be assigned to the attribute `bOut.conditionString2`. Null values are not included in SOAP responses, so this attribute will not be returned by the Bridge (compare **Response** tab in the picture below, where the attribute `bOut.conditionString2` is not listed in the response). For more details refer to page NULL Values.
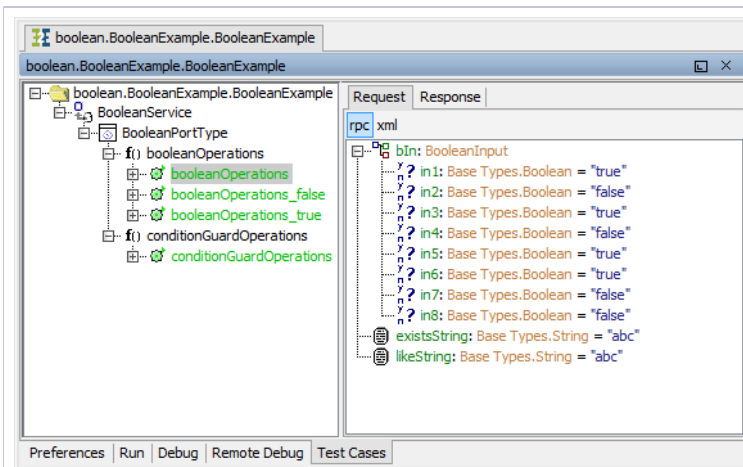
	Enter the input values on the **Request** tab of the SOAP Test Tool.
	The result returned by the Runtime is displayed on the **Response** tab of the SOAP Test Tool.