

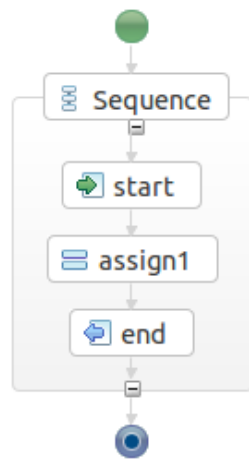
Aufgabe 3 - BPEL:

a)

Ergebnis von normaler Ausführung mit Hello World Request:

```
vislab@vislab-VirtualBox:~$ sendsoap http://localhost:8080/ode/processes/helloWorld git/vislab/lab3/lab3-example/testRequest.soap
WARN - 2023-06-08 18:58:42,629 - <org.apache.commons.httpclient.HttpMethodBase> Going to buffer response body of large or unknown size.
Using getResponseBodyAsStream instead is recommended.
<?xml version='1.0' encoding='UTF-8'?><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"><soapenv:Body><odens:h
elloResponse xmlns:odens="http://ode/bpel/unit-test.wsdl"><TestPart xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns1
="http://ode/bpel/unit-test.wsdl">Hello World</TestPart></odens:helloResponse></soapenv:Body></soapenv:Envelope>
vislab@vislab-VirtualBox:~$
```

Design View:

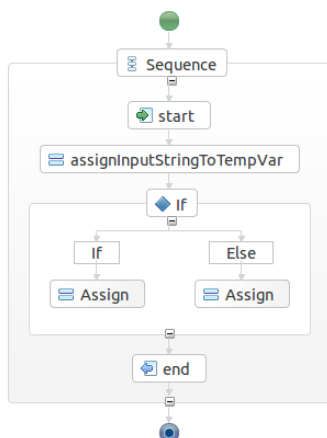


b)

Implementation von If-Statement:

```
25
26 <variables>
27   <variable name="myVar" messageType="test:HelloMessage" />
28   <variable name="tmpVar" type="xsd:string" />
29 </variables>
30
31 <sequence>
32   <receive name="start" partnerLink="helloPartnerLink" portType="test:HelloPortType"
33     operation="hello" variable="myVar" createInstance="yes" />
34
35   <assign name="assignInputStringToTempVar">
36     <copy>
37       <from variable="myVar" part="TestPart" />
38       <to variable="tmpVar" />
39     </copy>
40   </assign>
41
42   <!-- If statement for checking if tmpVar string is longer than 10 -->
43   <if>
44     <condition>
45       string-length ($tmpVar) > 10
46     </condition>
47
48     <assign>
49       <copy>
50         <from>"long"</from>
51         <to variable="myVar" part="TestPart"/>
52       </copy>
53     </assign>
54
55     <else>
56       <assign>
57         <copy>
58           <from>"short"</from>
59           <to variable="myVar" part="TestPart"/>
60         </copy>
61       </assign>
62     </else>
63   </if>
64
65   <reply name="end" partnerLink="helloPartnerLink" portType="test:HelloPortType"
66     operation="hello" variable="myVar" />
67 </sequence>
68 </process>
```

Design View:



Ergebnis von “short” mit testRequest.soap (enthält Parameter mit weniger als 10 Zeichen):

```
vislab@vislab-VirtualBox:~$ sendsoap http://localhost:8080/ode/processes/helloWorld git/vislab/lab3/lab3-example/testRequest.soap
WARN - 2023-06-08 19:40:38,340 - <org.apache.commons.httpclient.HttpMethodBase> Going to buffer response body of large or unknown size.
Using getResponseBodyAsStream instead is recommended.
<?xml version='1.0' encoding='UTF-8'?><soapenv:Envelope xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'><soapenv:Body><odens:h
elloResponse xmlns:odens='http://ode/bpel/unit-test.wsdl'><TestPart xmlns:SOAP-ENV='http://schemas.xmlsoap.org/soap/envelope/' xmlns:ns1
='http://ode/bpel/unit-test.wsdl'>short</TestPart></odens:helloResponse></soapenv:Body></soapenv:Envelope>

vislab@vislab-VirtualBox:~$
```

testRequest.soap:

```
1<?xml version="1.0" encoding="utf-8" ?>
2<!--
3 ~ Licensed to the Apache Software Foundation (ASF) under one
4 ~ or more contributor license agreements. See the NOTICE file
5 ~ distributed with this work for additional information
6 ~ regarding copyright ownership. The ASF licenses this file
7 ~ to you under the Apache License, Version 2.0 (the
8 ~ "License"); you may not use this file except in compliance
9 ~ with the License. You may obtain a copy of the License at
10 ~
11 ~ http://www.apache.org/licenses/LICENSE-2.0
12 ~
13 ~ Unless required by applicable law or agreed to in writing,
14 ~ software distributed under the License is distributed on an
15 ~ "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
16 ~ KIND, either express or implied. See the License for the
17 ~ specific language governing permissions and limitations
18 ~ under the License.
19 -->
20
21<SOAP-ENV:Envelope xmlns:SOAP-ENV='http://schemas.xmlsoap.org/soap/envelope/'>
22 <!-- test soap message -->
23 <SOAP-ENV:Body>
24 <ns1:hello xmlns:ns1='http://ode/bpel/unit-test.wsdl'>
25 <TestPart xmlns='http://schemas.xmlsoap.org/soap/envelope/'>Hello</TestPart>
26 </ns1:hello>
27 </SOAP-ENV:Body>
28</SOAP-ENV:Envelope>
```

Ergebnis von “long” mit testRequest_2.soap (enthält Parameter mit mehr als 10 Zeichen):

```
vislab@vislab-VirtualBox:~$ sendsoap http://localhost:8080/ode/processes/helloWorld git/vislab/lab3/lab3-example/testRequest_2.soap
WARN - 2023-06-08 19:41:33,127 - <org.apache.commons.httpclient.HttpMethodBase> Going to buffer response body of large or unknown size.
Using getResponseBodyAsStream instead is recommended.
<?xml version='1.0' encoding='UTF-8'?><soapenv:Envelope xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'><soapenv:Body><odens:h
elloResponse xmlns:odens='http://ode/bpel/unit-test.wsdl'><TestPart xmlns:SOAP-ENV='http://schemas.xmlsoap.org/soap/envelope/' xmlns:ns1
='http://ode/bpel/unit-test.wsdl'>long</TestPart></odens:helloResponse></soapenv:Body></soapenv:Envelope>

vislab@vislab-VirtualBox:~$
```

testRequest_2.soap:

```
1<?xml version="1.0" encoding="utf-8" ?>
2<!--
3 ~ Licensed to the Apache Software Foundation (ASF) under one
4 ~ or more contributor license agreements. See the NOTICE file
5 ~ distributed with this work for additional information
6 ~ regarding copyright ownership. The ASF licenses this file
7 ~ to you under the Apache License, Version 2.0 (the
8 ~ "License"); you may not use this file except in compliance
9 ~ with the License. You may obtain a copy of the License at
10 ~
11 ~ http://www.apache.org/licenses/LICENSE-2.0
12 ~
13 ~ Unless required by applicable law or agreed to in writing,
14 ~ software distributed under the License is distributed on an
15 ~ "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
16 ~ KIND, either express or implied. See the License for the
17 ~ specific language governing permissions and limitations
18 ~ under the License.
19 -->
20
21<SOAP-ENV:Envelope xmlns:SOAP-ENV='http://schemas.xmlsoap.org/soap/envelope/'>
22 <!-- test soap message -->
23 <SOAP-ENV:Body>
24 <ns1:hello xmlns:ns1='http://ode/bpel/unit-test.wsdl'>
25 <TestPart xmlns='http://schemas.xmlsoap.org/soap/envelope/'>Test Request 2</TestPart>
26 </ns1:hello>
27 </SOAP-ENV:Body>
28</SOAP-ENV:Envelope>
```