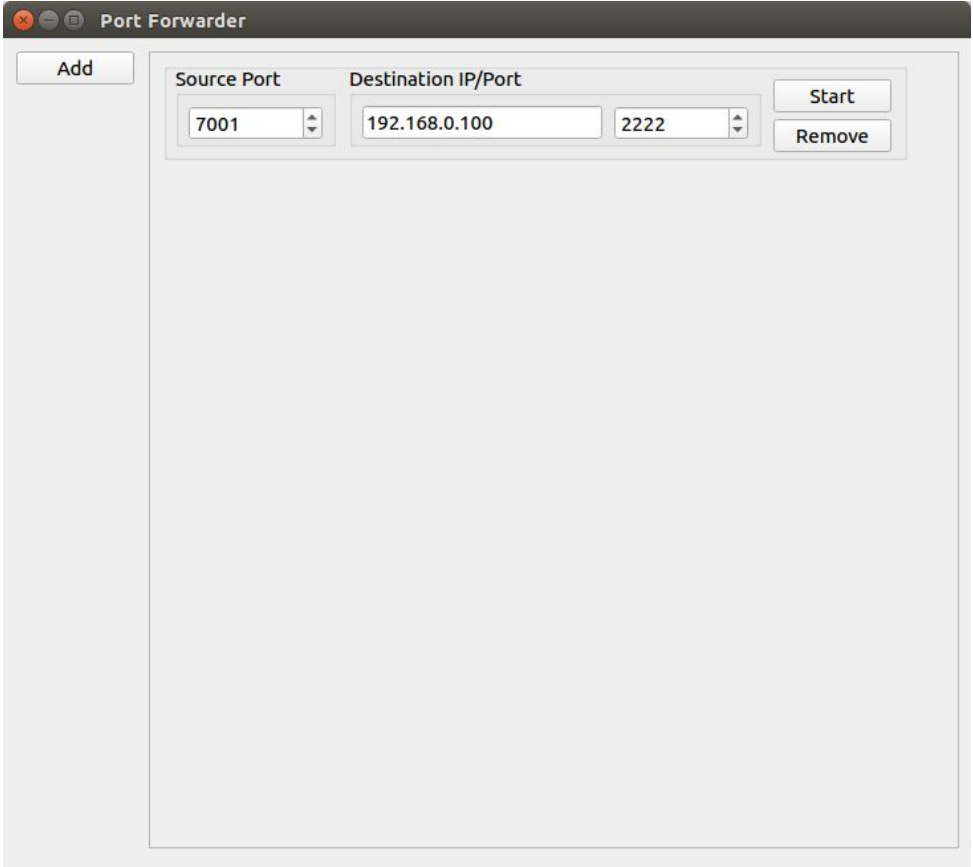
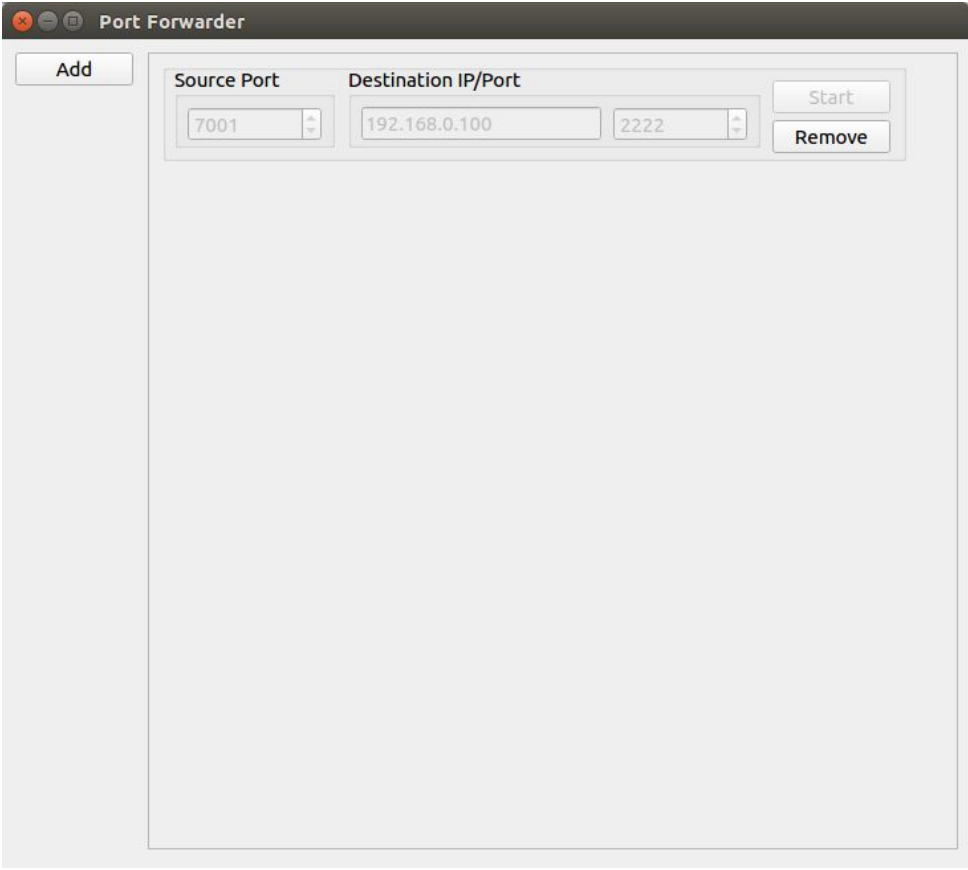


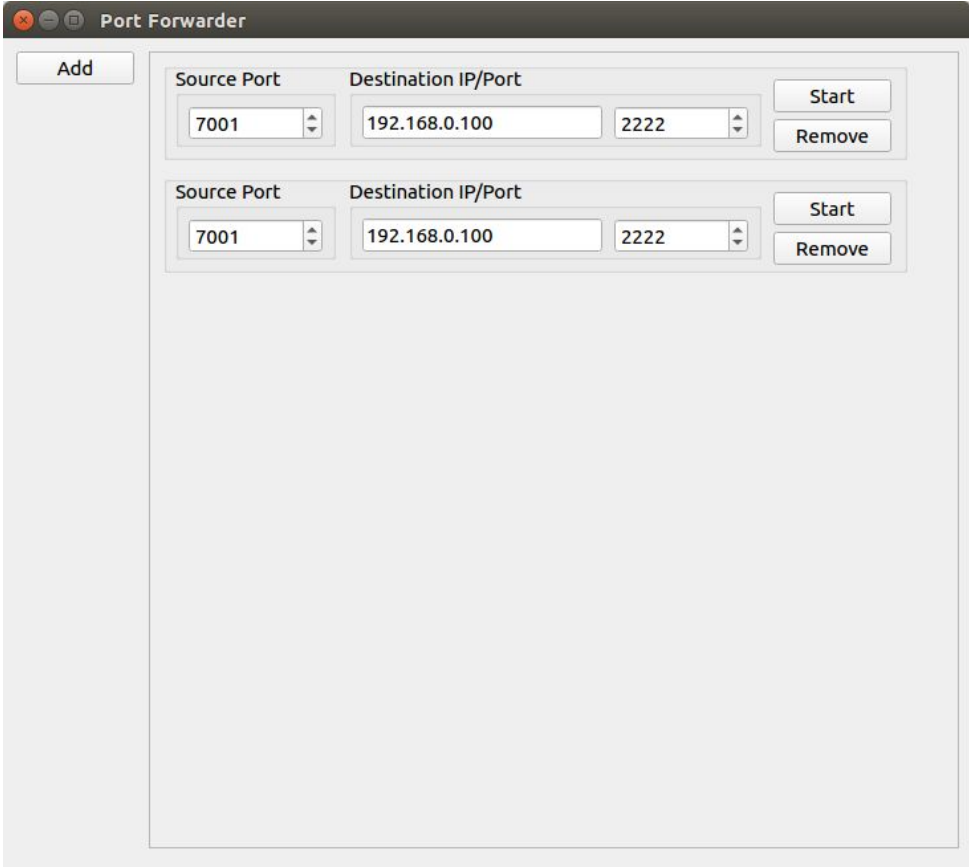
# COMP8005 FINAL PROJECT TESTING

Test#	1
Description	Port Forwarder Run (GUI)
Steps	<ul style="list-style-type: none"><li>• Start the program</li><li>• Mainwindow appears</li></ul>
Result	
Success	Yes

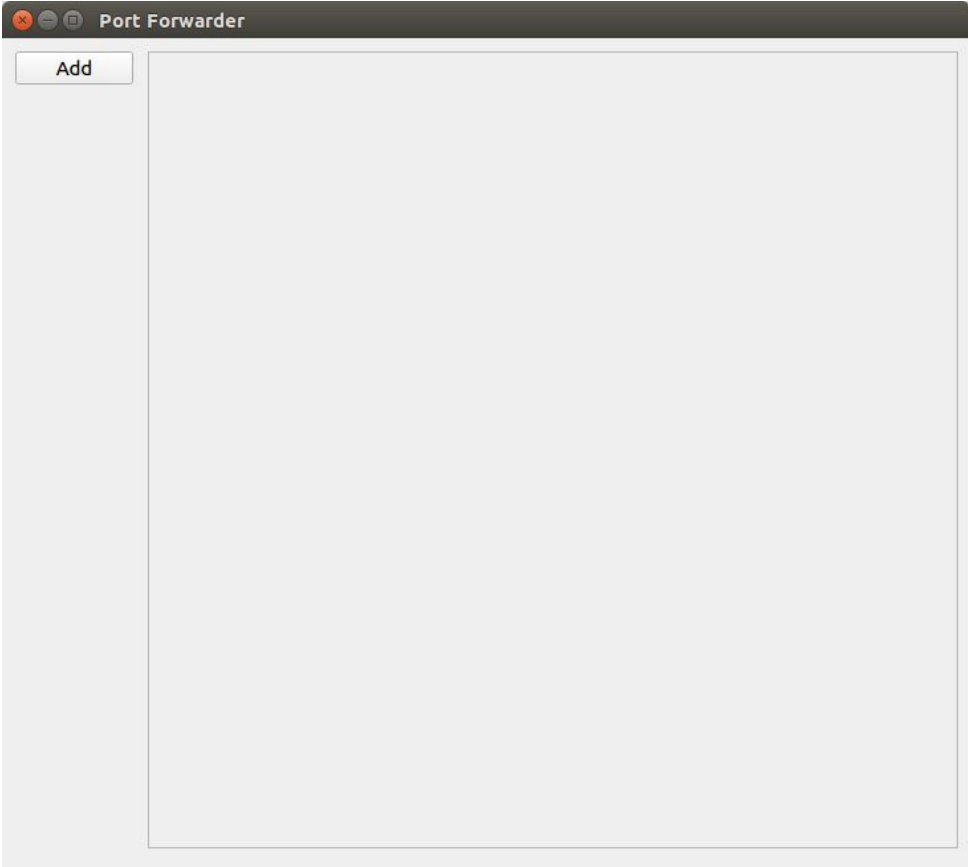
# COMP8005 FINAL PROJECT TESTING

Test#	2
Description	Forward a port (GUI)
Steps	<ul style="list-style-type: none"><li>• Start the program</li><li>• Set Source Port</li><li>• Set Destination IP/Port</li><li>• Click Start</li></ul>
Result	 A screenshot of a macOS-style window titled "Port Forwarder". The window has a dark title bar with standard window controls (red, yellow, green buttons). Inside the window, there is a light gray background. On the left side, there is a vertical list area with an "Add" button at the top. To the right of this list, there is a configuration area. It contains two labels: "Source Port" and "Destination IP/Port". Under "Source Port" is a text field with the value "7001" and a small up/down arrow button. Under "Destination IP/Port" is a text field with the value "192.168.0.100" and another text field with the value "2222" and an up/down arrow button. To the right of these fields are two buttons: "Start" and "Remove".
Success	Yes


# COMP8005 FINAL PROJECT TESTING

Test#	3
Description	Add a port (GUI)
Steps	<ul style="list-style-type: none"><li>• Start the program</li><li>• Click Add</li></ul>
Result	 <p>The screenshot shows a window titled "Port Forwarder" with a dark title bar. On the left is a vertical sidebar with an "Add" button. The main area contains two identical entries. Each entry has a "Source Port" field with a spinner set to 7001, a "Destination IP/Port" field with a text input containing 192.168.0.100 and a spinner set to 2222, and two buttons labeled "Start" and "Remove".</p>
Success	Yes

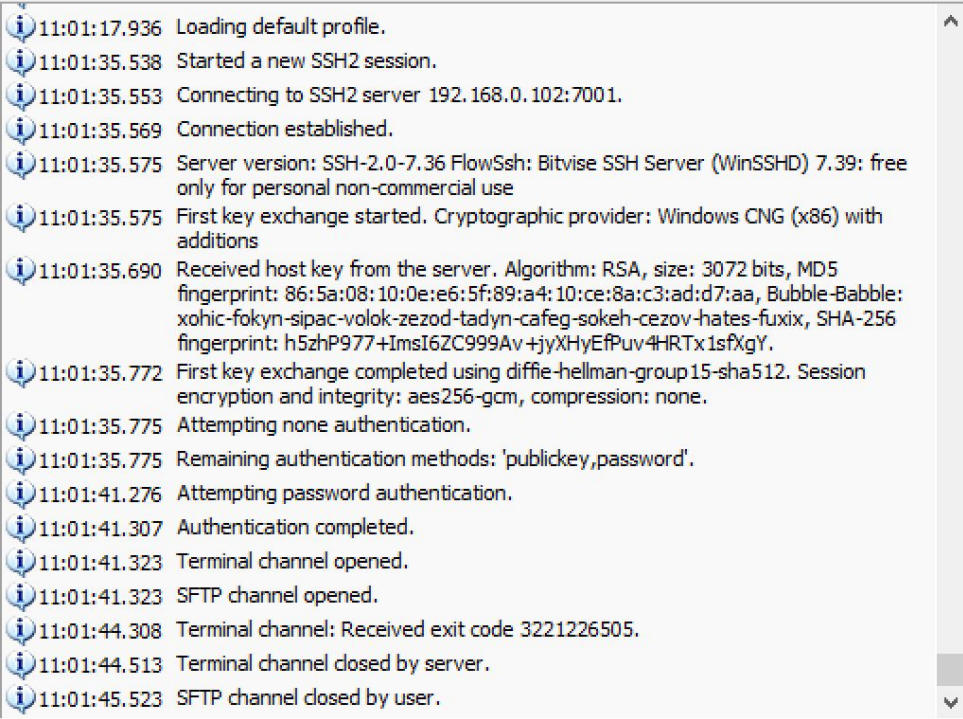
# COMP8005 FINAL PROJECT TESTING

Test#	4
Description	Remove a port (GUI)
Steps	<ul style="list-style-type: none"><li>• Start the program</li><li>• Click Remove</li></ul>
Result	 A screenshot of a window titled "Port Forwarder". The window has a dark grey title bar with standard OS window controls (close, maximize, minimize). Below the title bar, there is a light grey sidebar on the left containing a single button labeled "Add". The main area of the window is a large, empty light grey rectangle, presumably for displaying a list of port forwards.
Success	Yes


















# COMP8005 FINAL PROJECT TESTING







Test#	5
Description	Forward port 7001 to 2222. (SSH)
Steps	<ul style="list-style-type: none"> <li>• Set Source Port</li> <li>• Set Destination IP/Port</li> <li>• Click Start</li> <li>• Test with ssh from source and destination</li> </ul>
Result	 <p>The screenshot displays a WinSSH terminal window with the following output:</p> <pre> 10:07:36.397 Current date: 2018-04-09 10:07:36.397 Started a new SSH2 session. 10:07:36.397 Connecting to SSH2 server 192.168.0.102:7001. 10:07:36.422 Connection established. 10:07:36.437 Server version: SSH-2.0-7.36 FlowSsh: Bitvise SSH Server (WinSSHD) 7.39: free only for personal non-commercial use 10:07:36.437 First key exchange started. Cryptographic provider: Windows CNG (x86) with additions 10:07:36.537 Received host key from the server. Algorithm: RSA, size: 3072 bits, MD5 fingerprint: 86:5a:08:10:0e:e6:5f:89:a4:10:ce:8a:c3:ad:d7:aa, Bubble-Babble: xohic-fokyn-sipac-volok-zezod-tadyn-cafeg-sokeh-cezov-hates-fuxix, SHA-256 fingerprint: h5zhP977+ImsI6ZC999Av+jyXHyeFPuv4HRTx1sfXgY. 10:07:36.622 First key exchange completed using diffie-hellman-group15-sha512. Session encryption and integrity: aes256-gcm, compression: none. 10:07:36.638 Attempting none authentication. 10:07:36.653 Remaining authentication methods: 'publickey,password'. 10:07:42.535 Attempting password authentication. 10:07:42.566 Authentication completed. 10:07:42.598 Terminal channel opened. 10:07:42.598 SFTP channel opened. 10:07:45.896 Terminal channel: Received exit code 3221226505. 10:07:46.103 Terminal channel closed by server. 10:07:47.400 SFTP channel closed by user. </pre> <p>Below the terminal output, a status bar shows connection logs:</p> <pre> 2018-04-09 10:07:33 Accepted connection from 192.168.0.102:59104. 2018-04-09 10:07:33 Connection from 192.168.0.102:59104 sent client version string 'SSH-2.0-7.39 FlowSsh: Bitvise SSH Client (Tunneler) 7.39 - BvSsh'. 2018-04-09 10:07:40 Connection from 192.168.0.102:59104 logged in as Virtual account 'dericm', using 'password' authentication. </pre>
Success	Yes

# COMP8005 FINAL PROJECT TESTING

Test#	6
Description	Forward port 7001 to 2222. Two Connections (SSH)
Steps	<ul style="list-style-type: none"><li>• Set Source Port</li><li>• Set Destination IP/Port</li><li>• Click Start</li><li>• Test with ssh from source and destination</li></ul>
Result	

# COMP8005 FINAL PROJECT TESTING

 11:02:25.150 Current date: 2018-04-09  
 11:02:25.150 Started a new SSH2 session.  
 11:02:25.150 Connecting to SSH2 server 192.168.0.102:7001.  
 11:02:25.166 Connection established.  
 11:02:25.181 Server version: SSH-2.0-7.36 FlowSsh: Bitvise SSH Server (WinSSHD) 7.39: free only for personal non-commercial use  
 11:02:25.181 First key exchange started. Cryptographic provider: Windows CNG (x86) with additions  
 11:02:25.345 Received host key from the server. Algorithm: RSA, size: 3072 bits, MD5 fingerprint: 86:5a:08:10:0e:e6:5f:89:a4:10:ce:8a:c3:ad:d7:aa, Bubble-Babble: xohic-fokyn-sipac-volok-zezod-tadyn-cafeg-sokeh-cezov-hates-fuxix, SHA-256 fingerprint: h5zhP977+ImsI6ZC999Av +jyXHyeFpUv4HRTx1sfXgY.  
 11:02:25.450 First key exchange completed using diffie-hellman-group15-sha512. Session encryption and integrity: aes256-gcm, compression: none.  
 11:02:25.524 Attempting none authentication.  
 11:02:25.539 Remaining authentication methods: 'publickey,password'.  
 11:02:30.297 Attempting password authentication.  
 11:02:30.329 Authentication completed.  
 11:02:30.360 Terminal channel opened.  
 11:02:30.360 SFTP channel opened.  
 11:02:33.154 Terminal channel: Received exit code 3221226505.  
 11:02:33.357 Terminal channel closed by server.  
 11:02:37.273 SFTP channel closed by user.

 2018-04-09 11:02:17 Accepted connection from 192.168.0.102:59808.  
 2018-04-09 11:02:17 Connection from 192.168.0.102:59808 sent client version string 'SSH-2.0-7.39 FlowSsh: Bitvise SSH Client (Tunneler) 7.39 - BvSsh'.  
 2018-04-09 11:02:19 Connection from 192.168.0.102:59808 terminated.  
 2018-04-09 11:02:22 Accepted connection from 192.168.0.102:59812.  
 2018-04-09 11:02:22 Connection from 192.168.0.102:59812 sent client version string 'SSH-2.0-7.39 FlowSsh: Bitvise SSH Client (Tunneler) 7.39 - BvSsh'.  
 2018-04-09 11:02:27 Connection from 192.168.0.102:59812 logged in as Virtual account 'dericm', using 'password' authentication.

Id	Remote Ip	Remote port	Connect time	Client version	Account	Account type
1021	192.168.0.102	59798	00:04:39	SSH-2.0-7.39 Flo...	dericm	Virtual
1023	192.168.0.102	59812	00:03:50	SSH-2.0-7.39 Flo...	dericm	Virtual



# COMP8005 FINAL PROJECT TESTING

Test#	7
Description	Forward port 7001 to 2222. Five Connections (SSH)
Steps	<ul style="list-style-type: none"><li>● Set Source Port</li><li>● Set Destination IP/Port</li><li>● Click Start</li><li>● Test with ssh from source and destination</li></ul>
Result	<div><div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> 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# COMP8005 FINAL PROJECT TESTING

Success	Yes
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