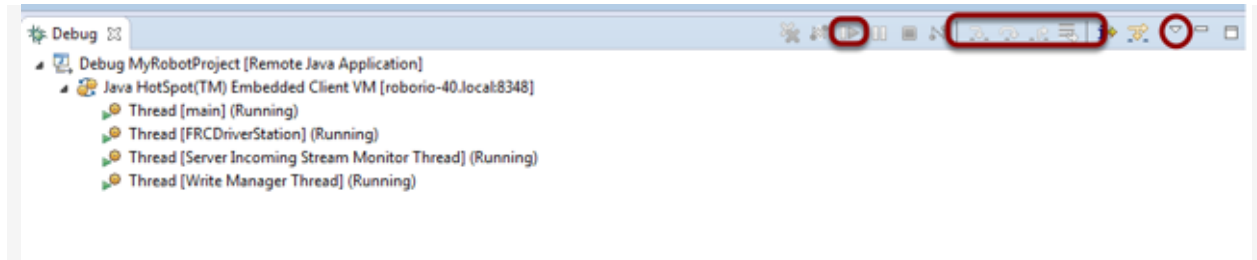# Debugging a robot program

A debugger is used to control program flow and monitor variables in order to assist in debugging a program. This section will describe how to set up a debug session for a Java FRC robot program.

1. Right click on the project
2. Select **Debug As**
3. Click **WPILib Java Deploy**

The Debug window shows all processes and threads spawned by your code running on the roboRIO. When your breakpoint is reached, make sure your program is selected in the task list and your source code is displayed with a program pointer. You can continue stepping through your code using "Resume,"

If the debug toolbar (resume, terminate and step controls) is not visible, click the down arrow at the top right of the debug window and select the **Show Debug Toolbar** option.

Shortcut	Action
F5	Step Into
F6	Step Over
F7	Step Return
F8	Resume
F11	Debug
Ctl-Shift-B	Toggle Breakpoint
Ctl-R	Run to line
Ctl-F2	Terminate
Ctl-F11	Run

Eclipse Debugging Shortcuts