

Programming Challenge

Addition and Subtraction

Challenge Description

This challenge requires that you have two limit switches connected to your robot.

Create a program with an integer variable named "pressCount". Whenever the first limit switch is pressed, "pressCount" should be incremented by 1. Whenever the second limit switch is pressed, "pressCount" should be decremented by 1.

Keep your robot connected to the computer over VEXnet or USB to observe the value stored in "pressCount" using the "Robot > Debug Windows > Global Variables" window. (See page 2 for details on using the "Global Variables" window.)

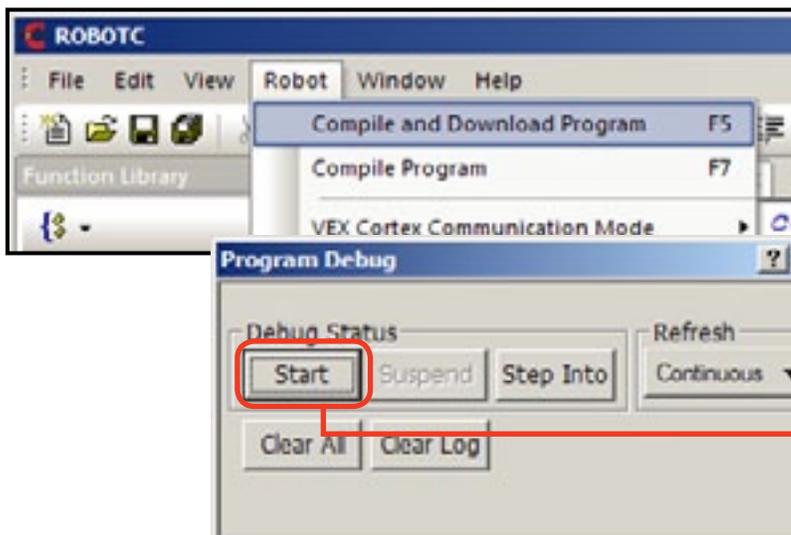
Notes

- "pressCount" can be incremented using the code: `pressCount = pressCount + 1;`
- "pressCount" can be decremented using the code: `pressCount = pressCount - 1;`
- Make sure that you initialize "pressCount" at the beginning of your program to 0
- Each "press" should result in a change of only +/- 1

Programming Challenge

Debugger Window: Global Variables

The Global Variables window is a powerful part of the ROBOTC debugger. When shown, it displays the current status of any variables declared in the program. Use the following steps to open the Global Variables window and view the information it provides.

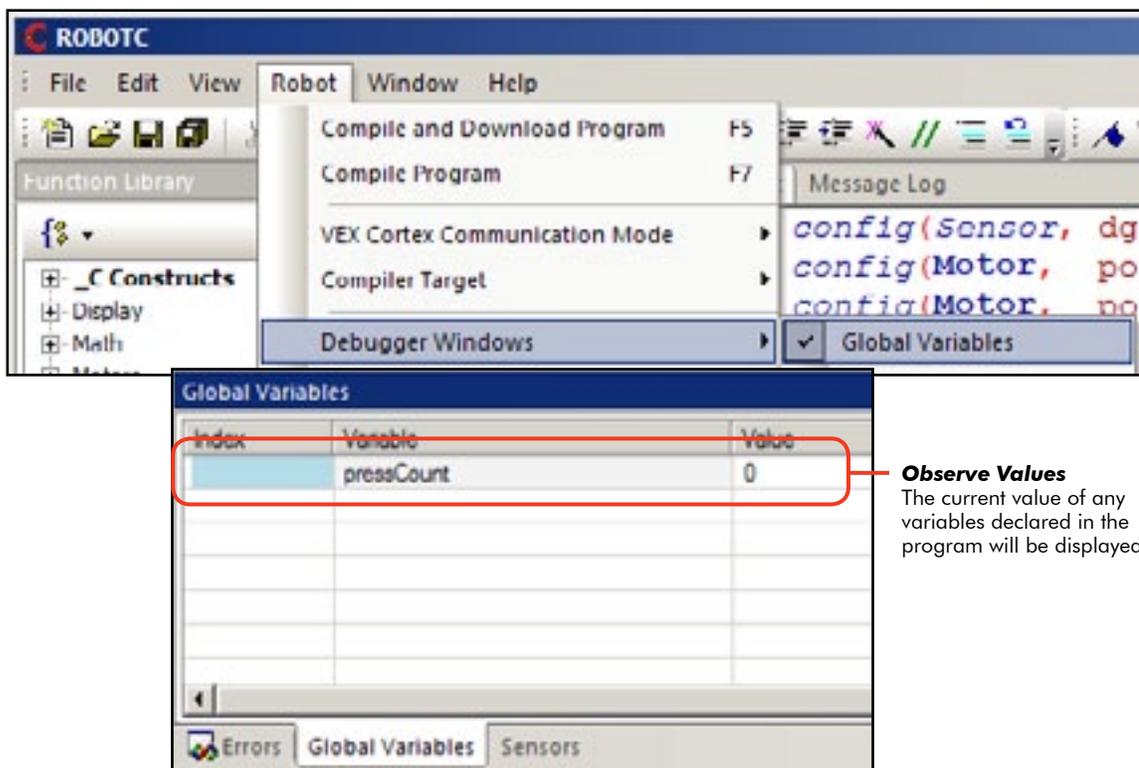


Robot > Compile and Download Program
Compile and Download your program to the robot.

Program Debug
The Program Debug window will open once the download is complete.

Start Button
Press the "Start" button to initialize the program.

Robot > Debugger Windows > Global Variables
Open up the Global Variables window.



Observe Values
The current value of any variables declared in the program will be displayed.