LINE FOLLOWING

Theory of Operation

START
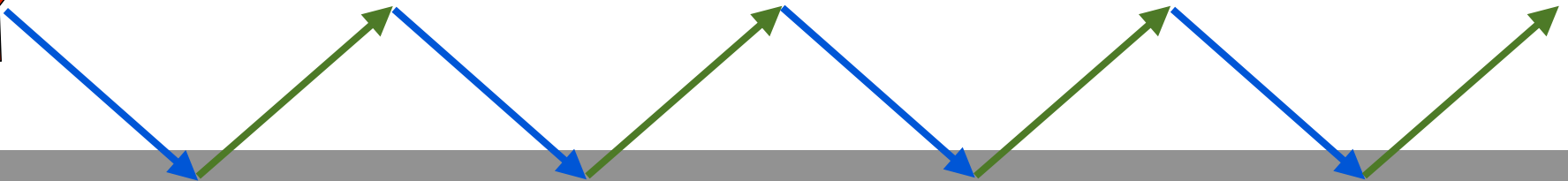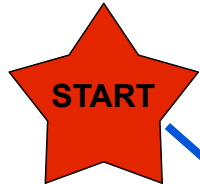
Motor Actions

| turn RIGHT | turn LEFT | turn RIGHT | turn LEFT | turn RIGHT | turn LEFT | turn RIGHT | turn LEFT |

Light sensor

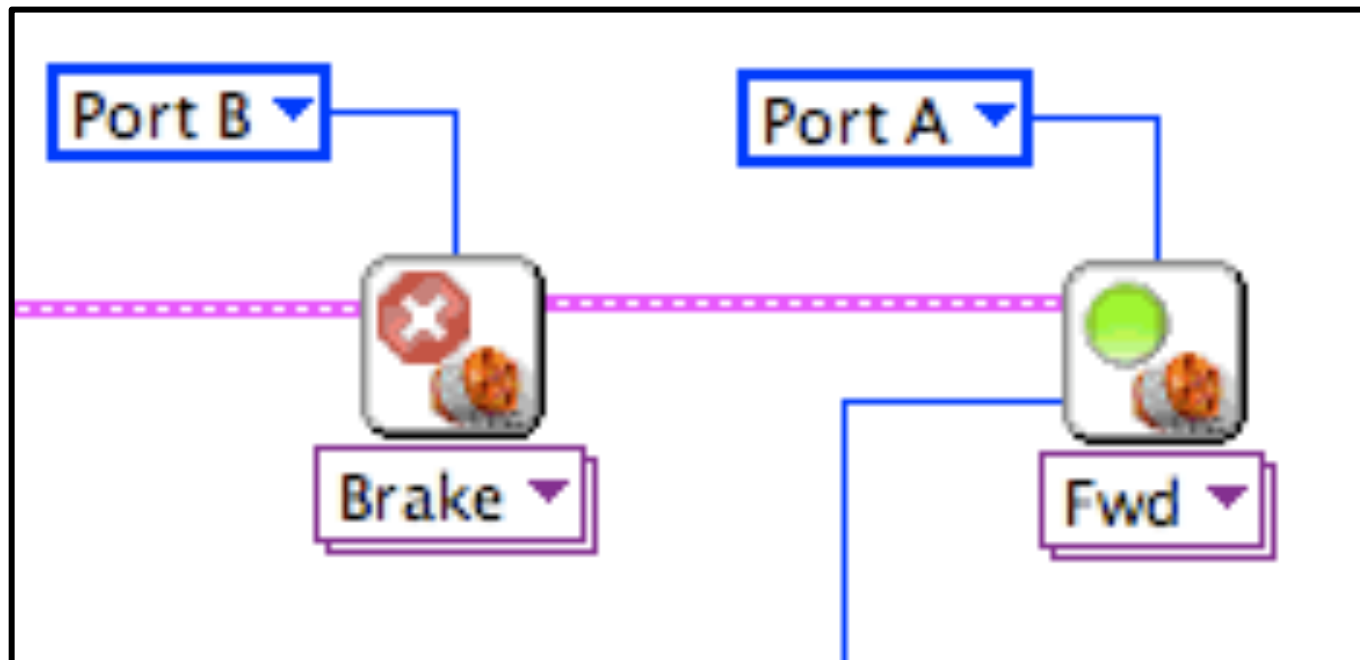| dark | light | dark | light | dark | light | dark |

RoboJackets

How Do We Do This?

1. If the light sensor is "light"
   - Turn Right
2. Else if the light sensor is "dark"
   - Turn Left

RoboJackets

Turning

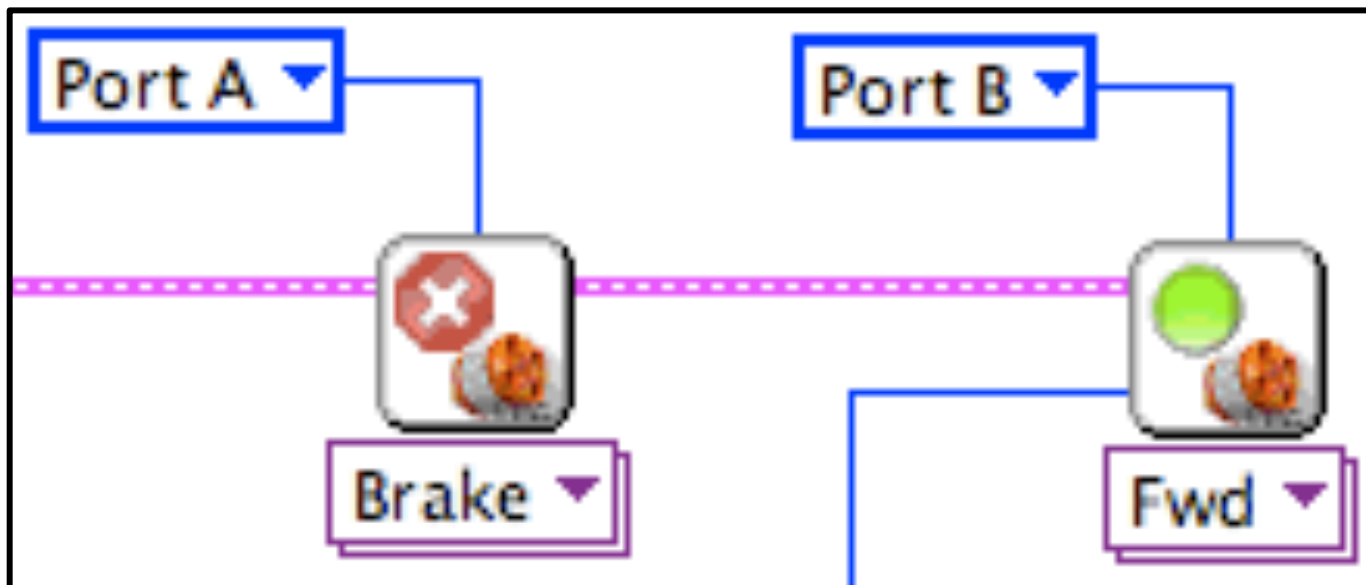The left motor is A and the right motor is B

Which way does this turn?

Turning

The left motor is A and the right motor is B

Which way does this turn?
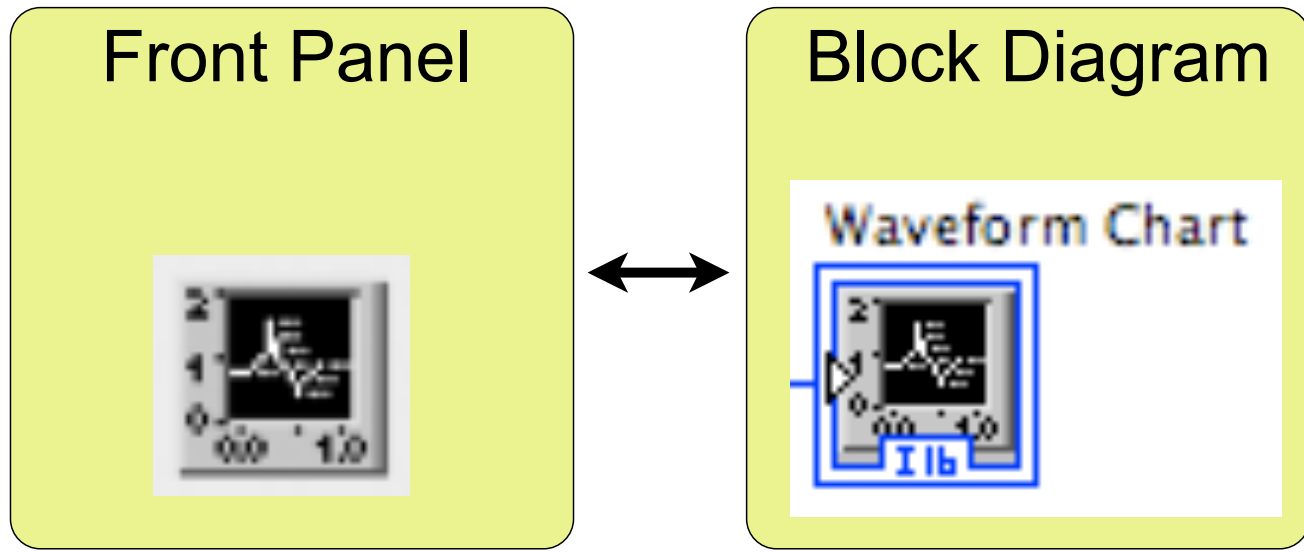
RoboJackets

What does "dark" mean?

Do an experiment

in LabVIEW

RoboJackets

What does "dark" mean?

RoboJackets

What does "dark" mean?

Front Panel		Block Diagram
	↔	Waveform Chart

RoboJackets

What does "dark" mean?
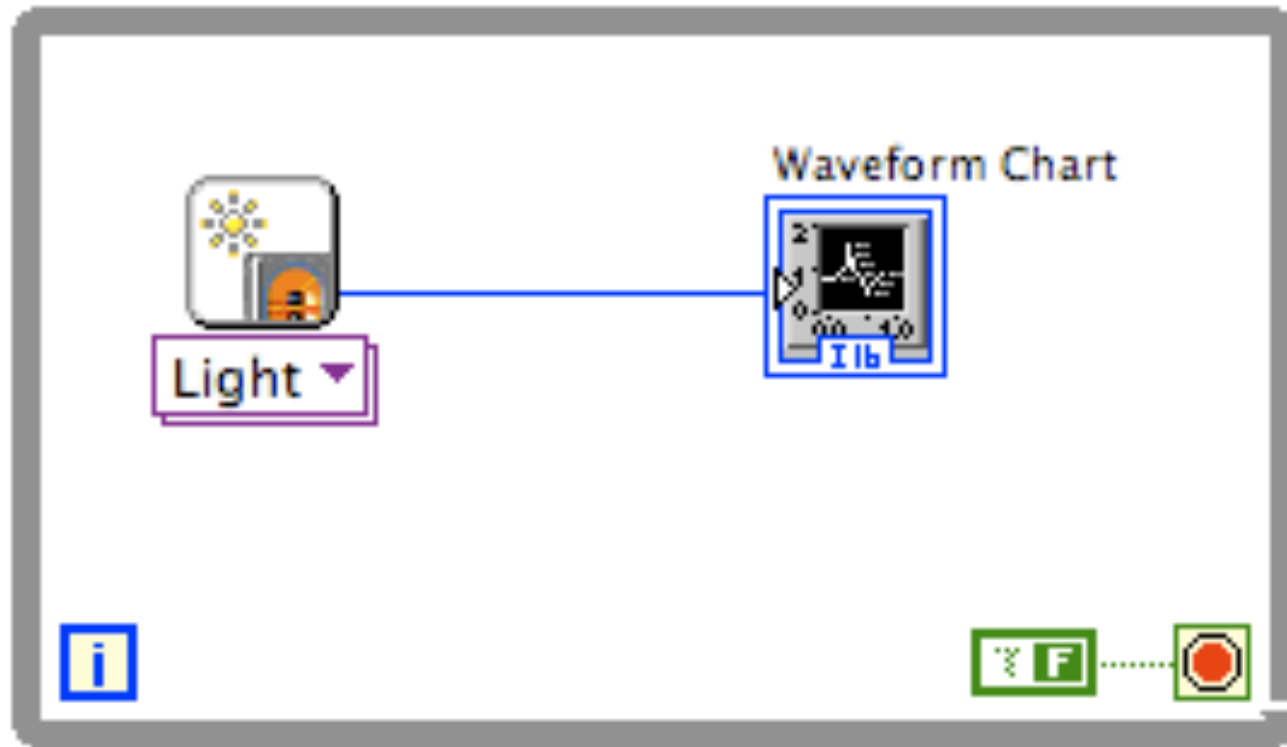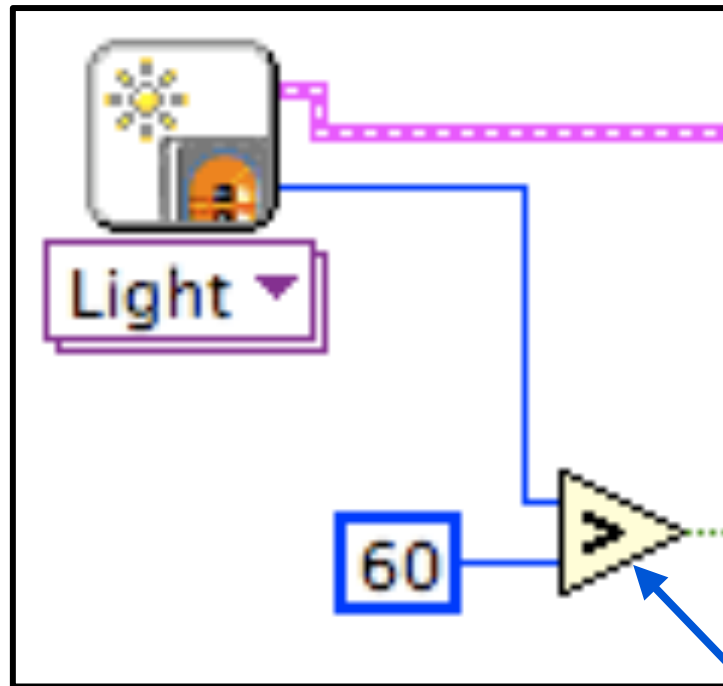
What does "dark" mean?

Lots of Noise

pick a threshold

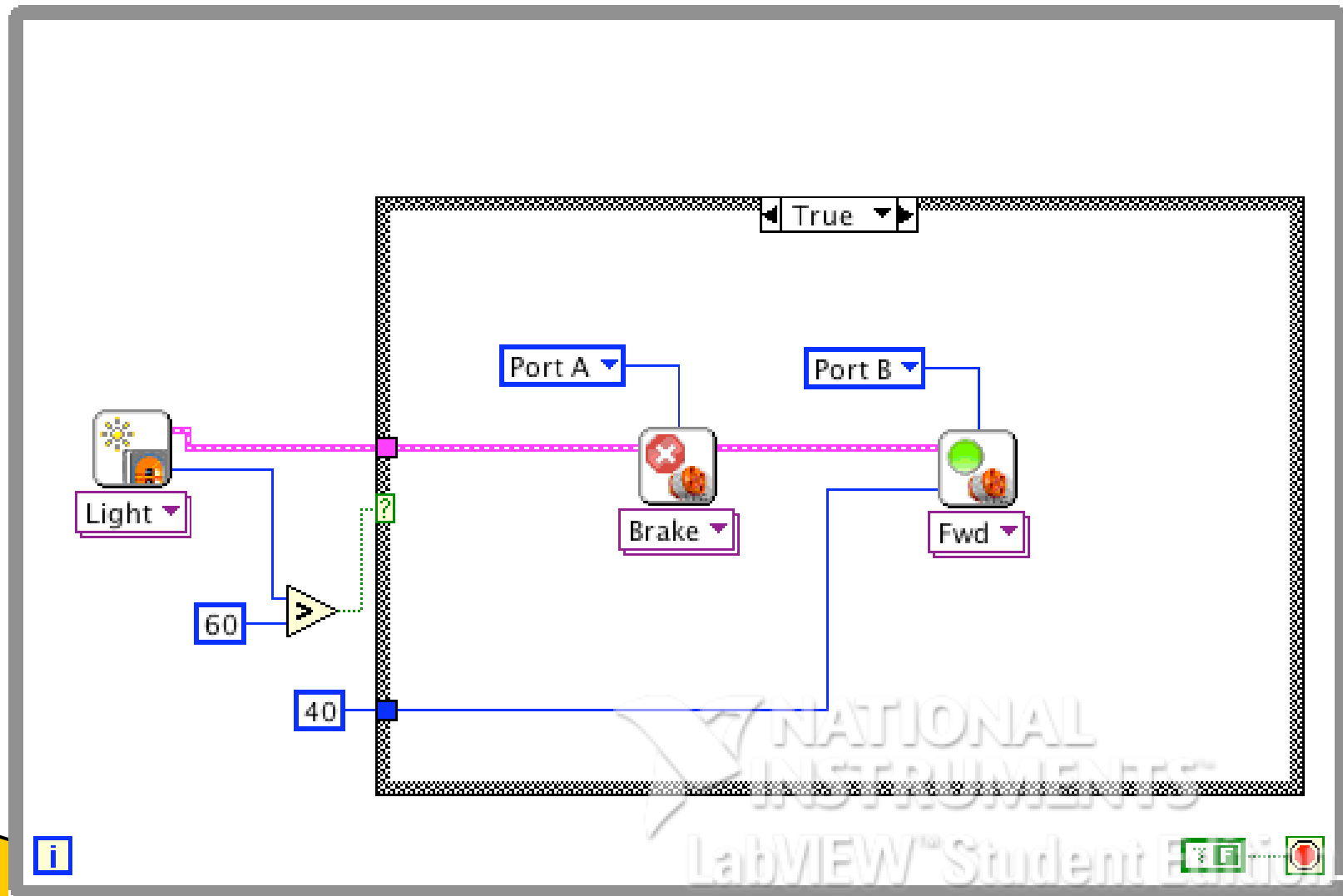RoboJackets

Thresholding

If the light is **greater than** 60

Emit **true**

Greater than

Putting it all Together

Putting it all Together