Connect

(Letters are commands sent to PSOC from GUI)

GUI sends "I" → returns "IPSOC" → Connected, indicator on GUI on

Send

GUI sends "t" → toggle motor on/off, prints whether motor on/off

Stop → stops motors, exits LabVIEW code

(can add as many commands as we need)

Receive

IR sensor detects object → PSOC send true to GUI → toggle GUI indicator

It goes forward → PSOC sends letter or word that correlates to "forward" → toggle indicator

{Same for left/right}

While motor moving, PSOC calculates speed → sends number to LabVIEW, LabVIEW graphs it

With the speed, calculates the distance traveled, adds it → displays in LabVIEW

not exactly necessary, can add at the end