Design brief

When you use your mobile phone to navigate to your friends house it keeps sending you I the wrong direction. You suspect your phone's compass is wrong. So you decide to calibrate it against another digital compass to test your theory.

IPO Table

Inputs	Processing	Outputs
Magnetic compass	PUT welcome message to display GET Direction CALC Arrow SET Arrow	Display direction

Pseudocode

SET display message "Welcome to your digital compass"

DISPLAY welcome message

LOOP FOREVER

        GET

                Direction

        SET arrow

        DISPLAY arrow

        DISPLAY "N"