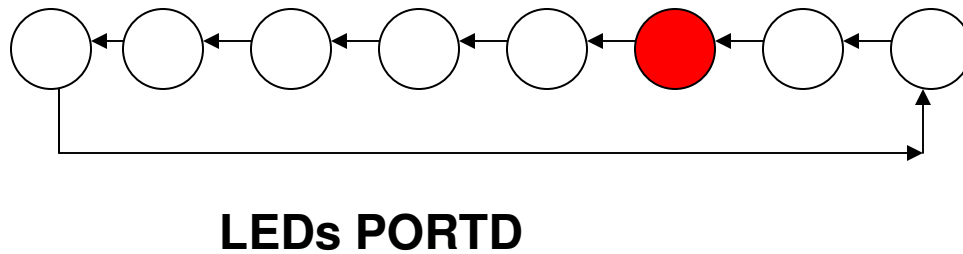


Rotating LED Display

Rotate

- Building on previous lessons, which showed how to light up a LED and then make it blink with a delay loop, this lesson adds rotation. It will light up RD7 and then shift it to RD6, then RD5 and on down to RD0, and then back to RD7.

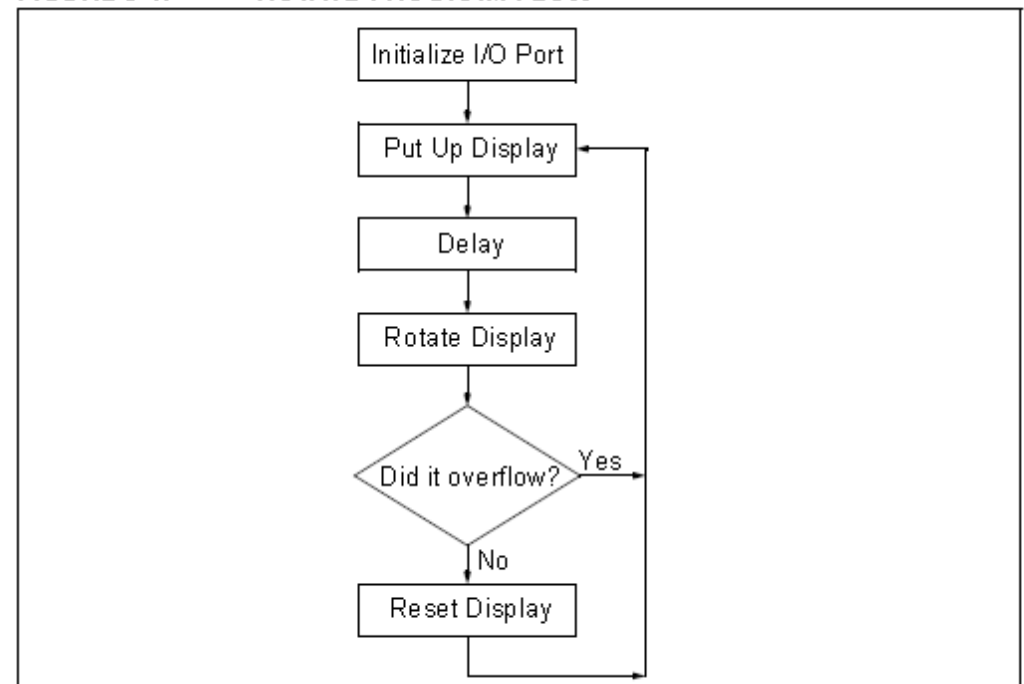


Rotate Algorithm

- **Rotate Program Flow**

- First, initialize the I/O port and the Display,
- Copy the Display variable to the I/O Port, then
- Delay for a little while
- Rotate the display – check for CARRY or overflow and readjust contents

FIGURE 3-1: ROTATE PROGRAM FLOW



Exercise

- Navigate to :C:\EET250\16F887\Lesson 5 Rotate with Demo Board\rotate
- Open project rotate.mcp, examine source code, build program using PICKIT2
- Run and verify operation
- Rewrite code elements to rotate in the opposite direction then exisiting rotate.
- Build, download and verify operation via run
- Demo to instructor