

Pseudocode

1. Import GPIO and standard launchpad libraries
2. Create a struct
 - a. Declare four variables :
 - i. one for the main roads, one for the pedestrians, one for time delay, and one for the state
3. Create an array of the struct type and initialize the variables
 - a. Create 14 states
 - i. Implement the required logic/cycles
 - ii. Some additional states for making the Walk light flash
4. Declare two more variable
 - a. One to keep track of the current state
 - b. One for the input
5. Initialize/Configure all peripherals
 - a. Clock, delays, ports, pins
6. Set Respective ports and pins to read/write appropriate data
7. Iterate algorithm continuously

Set-Up

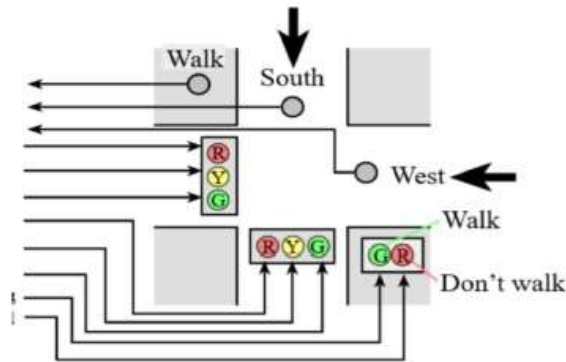


Figure 1. Implemented Intersection

	Red	Yellow	Green	Switch
South	PE2	PE1	PE0	PD1
West	PE5	PE4	PE3	PD0
Walk	PA2	/	PA3	PD2