## **HANDOUT #8**

## **ALGORITHM for Traffic Light / Pedestrian Co-ordination**

## Psuedo-code

Last Week's Pedestrian Crossing		This Week – Must coordinate with Traffic Light	
1.	RED LIGHT ON	1.	PEDESTRIAN RED LIGHT ON
2.	WAIT FOR BUTTON TO BE PRESSED	2.	TRAFFIC LIGHT GREEN LIGHT ON
3.	WHEN BUTTON IS PRESSED run greenman()	3.	WAIT FOR BUTTON TO BE PRESSED
		4.	WHEN BUTTON IS PRESSED – RUN greenman()
def greenman():		def greenman():	
4.	WAIT 10 SECONDS	5.	TRAFFIC LIGHT GREEN LIGHT OFF
5.	RED LIGHT GOES OFF, GREEN LIGHT COMES ON	6.	TRAFFIC LIGHT AMBER BLINKS 10 SECONDS
6.	BUZZER BUZZ SLOWLY	7.	TRAFFIC LIGHT RED LIGHT ON
7.	ALLOW 15 SECONDS FOR PEDESTRIANS TO CROSS	8.	PEDESTRIAN RED LIGHT OFF
8.	BUZZER BUZZ FASTER, SIGNIFYING THAT TIME IS	9.	PEDESTRIAN GREEN LIGHT ON
	COMING UP	10	. GIVE 10 SECONDS FOR PEDESTRAIN TO CROSS
9.	GIVE 5 SECONDS GRACE PERIOD	11	. START THE COUNTER FROM 9 TO 0
10	. GREEN LIGHT GOES OFF, RED LIGHT COMES ON	12	. EACH COUNT IS 1 SECOND
		13	. BUZZER BLINK
		14	. PEDESTRAIN GREEN LIGHT BLINK
		15	. AFTER COUNTER REACHES 0
		16	. PEDESTRAIN GREEN LIGHT OFF
		17	. PEDESTRAIN RED LIGHT ON
		18	. TRAFFIC LIGHT RED OFF
		19	. TRAFFIC LIGHT GREEN ON