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

**Psuedo-code**

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