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Project

Microcontrollers

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# Drive link

This Link contains the explaination of code and output demo videos:

<https://drive.google.com/drive/u/1/folders/1qJ0-XPZ_dvnYNXJhyQfinonIllsVbGLx>

# Functionality

This project has the following functionalities:

As described in the requirements. Green light starts for N-S traffic for 5s, then Yellow for 3s, then red and wait a second for switch to green for E-W.

When a pedestrian pushes the button of N-S when it’s green, it turns to red and the pedestrian light for N-S turns green, also E-W traffic light turns Green this remains for 2s then N-S gets back to green and continues counting its’ remaining time. Then process continues as usual. Same happens for E-W pedestrian button.

Also the UART function is implemented, where when the state of traffic changes, it sends a string to PC stating the current state.