Labview Lab exercise

Introduction:

The controlling VI sends CAN commands on the CAN bus to control the car. There are 3 variables that it uses to do this. The first is the Arbitration Id this selects what device you’re talking to, the second is the data length, this tells the program what size of an array is being passed to it and the third is the data this is part that contain the actual command.

Given:

|  |  |  |  |
| --- | --- | --- | --- |
| Function | Arbitration Id | Data Min/off | Data Max/on |
| Speed | 0x01 | 0x00 0x00 | 0xFF 0x00 |
| Steering | 0x05 | 0x00 | 0xFF |
| Headlights | 0x10 | 0x00 | 0x01 |
| left turn signal | 0x11 | 0x00 | 0x04 |
| Right turn signal | 0x12 | 0x00 | 0x02 |
| High beams | 0x13 | 0x00 | 0x01 |
| windshield | 0x20 | 0x00 0x00 | 0x01 0x01 |
| horn | 0x30 | 0x00 | 0x08 |

Instructions:

Open the CAN controlling VI and add a case to the case structure to allow the windshield wipers to be controlled. Your solution should only have the option of high, med, low and off. Use the table provided in addition to the cases that are already in the program to design your answer.

Protip: right clicking the bar that contains the case number will open up a drop down window have an option to add additional cases to the structure.