#include <SPI.h>

#include "mcp\_can.h"

const int spiCSPin = 10;

const int ledPin = 2;

boolean ledON = 1;

MCP\_CAN CAN(spiCSPin); //Instantiating CAN bus

void setup()

{

Serial.begin(115200);

pinMode(ledPin,OUTPUT);

while (CAN\_OK != CAN.begin(CAN\_500KBPS))

{

Serial.println("CAN BUS Init Failed");

delay(100);

}

Serial.println("CAN BUS Init OK!");

}

void loop()

{

unsigned char len = 0;

unsigned char buf[8];

if(CAN\_MSGAVAIL == CAN.checkReceive())

{

CAN.readMsgBuf(&len, buf);

unsigned long canId = CAN.getCanId();

Serial.println("-----------------------------");

Serial.print("Data from ID: 0x");

Serial.println(canId, HEX);

for(int i = 0; i<len; i++)

{

Serial.print(buf[i]);

Serial.print("\t");

if(ledON && i==0)

{

digitalWrite(ledPin, buf[i]);

ledON = 0;

delay(500);

}

else if((!(ledON)) && i==4)

{

digitalWrite(ledPin, buf[i]);

ledON = 1;

}

}

Serial.println();

}

}