If x=963

If x=954

Turn on yellow LED

digitalWrite(6,LOW);

digitalWrite(7,HIGH);

delay(1000);

digitalWrite(7,LOW);

delay(1000);

Turn on red LED

digitalWrite(6,HIGH);

digitalWrite(7,LOW);

delay(1000);

digitalWrite(6,LOW);

delay(1000);

Return the value back to python

Serial.print(x);

Read message sent from python

while (!Serial.available());

x = Serial.readString().toInt();

Initialize serial communication and pins

Serial.begin(115200);

Serial.setTimeout(1);

pinMode(6,OUTPUT);

pinMode(7,OUTPUT);

Import libraries

Gives user an info message (to check if the value python sent and Arduino received were consistent)

    log.info(value)

Sends variable *val* to Arduino and reads back the value Arduino received for checking

    value = write\_read\_img(val)

Main program for detecting and identifying images (written by professor)

Define function

def write\_read\_img(x):

    serialcomm.write(bytes(x, 'utf-8'))

    time.sleep(2)

    data = serialcomm.readline()

    return data

Declare variable

serialcomm = serial.Serial(port='COM5',baudrate=115200,timeout=0.1)