```matlab
% Juan Sandoval 63078
clear all;
clc;
Y1=zeros(1,1000);
Y2=zeros(1,1000);
pwm1=1750;
pwm2=1750;
delete(instrfind({'port'},{'COM4'}));
puerto_serial=serial('COM4');
puerto_serial.Baudrate=9600;
puerto_serial=serial('COM4','BaudRate',9600,'Terminator','LF');
warning('off','MATLAB:serial:fscanf:unsuccessfullRead');
fopen(puerto_serial);
while(1)
fprintf(puerto_serial, '%d\n',pwm1);
fprintf(puerto_serial, '%d\n',pwm2);
a=fscanf(puerto_serial,'%d,%d\n');
pause(0.01);
Y1=a(1);
Y2=a(2);
pwm1=1000+(Y1/26.41);
pwm2=1000+(Y2/26.41);
if pwm1<1000
pwm1=1000;
end
if pwm1>2500
pwm1=2500;
end
if pwm2>2500
pwm2=2500;
end
if pwm2<1000
pwm2=1000;
end
pwm2=round(pwm2)
pwm1=round(pwm1)
end
fclose(puerto_serial);
delete(puerto_serial);
clear all;
```