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\*Filename :flow\_led.c

\*Description : make a flowing led

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#include <wiringPi.h>

#include <stdio.h>

//turn on LED --- custom function

void turn\_on(int channel){

digitalWrite(channel,LOW);

}

//turn off LED --- custom function

void turn\_off(int channel){

digitalWrite(channel,HIGH);

}

//set led port as output

void setup(){

int i;

for(i=0;i<8;i++){

pinMode(i,OUTPUT);

digitalWrite(i,HIGH);

}

}

int main(){

int i;

if(wiringPiSetup()==-1){

printf("setup wiringPi failed!\n");

printf("please check your setup\n");

return -1;

}

setup();

printf("\n");

printf("\n");

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|\n");

printf("| Flow LED |\n");

printf("| ------------------------ |\n");

printf("| |\n");

printf("| LED\_R1 connect to GPIO0 |\n");

printf("| LED\_R2 connect to GPIO1 |\n");

printf("| LED\_G1 connect to GPIO2 |\n");

printf("| LED\_G2 connect to GPIO3 |\n");

printf("| LED\_Y1 connect to GPIO4 |\n");

printf("| LED\_Y2 connect to GPIO5 |\n");

printf("| LED\_W1 connect to GPIO6 |\n");

printf("| LED\_W2 connect to GPIO7 |\n");

printf("| |\n");

printf("| |\n");

printf("| |\n");

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|\n");

while(1){

//turn led from left to right

printf("|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|\n");

printf("| ----->> |\n");

printf("| From Left To Right! |\n");

printf("| |\n");

printf("|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|\n");

for(i=0;i<8;i++){

turn\_on(i);

delay(150);

turn\_off(i);

}

//turn on from righ to left

printf("|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|\n");

printf("| <<----- |\n");

printf("| From Right To Left! |\n");

printf("| |\n");

printf("|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|\n");

for(i=7;i>=0;i--){

turn\_on(i);

delay(150);

turn\_off(i);

}

}

return 0;

}