int redled=2; //LED OF SENSOR TO PIN 2 OF ARDUINO

int greenled=3; //LED OF SENSOR TO PIN 3 OF ARDUINO

int blueled=4; //LED OF SENSOR TO PIN 4 OF ARDUINO

int value=A0; // ANALOG OUTPUT OF SENSOR PIN A0 OF ARDUINO

int red;

int blue;

int green;

int redvalue;

int greenvalue;

int bluevalue;

int redout=8;// O/P TO RED LED

int greenout=9;// O/P TO BLUE LED

int blueout=10; // O/P TO GREEN LED

void setup() {

// put your setup code here, to run once:

pinMode(redled,OUTPUT);

pinMode(greenled,OUTPUT);

pinMode(blueled,OUTPUT);

pinMode(value,INPUT);

pinMode(redout,OUTPUT);

pinMode(greenout,OUTPUT);

pinMode(blueout,OUTPUT);

Serial.begin(9600);

}

void loop() {

// put your main code here, to run repeatedly:

digitalWrite(redled,HIGH);

delay(40);

red=analogRead(value);

delay(10);

Serial.print("R=");

Serial.println(red);

digitalWrite(redled,LOW);

digitalWrite(greenled,HIGH);

delay(40);

green=analogRead(value);

delay(10);

Serial.print("G=");

Serial.println(green);

digitalWrite(greenled,LOW);

digitalWrite(blueled,HIGH);

delay(40);

blue=analogRead(value);

delay(10);

Serial.print("B=");

Serial.println(blue);

digitalWrite(blueled,LOW);

if(red>green&&red>blue)

{

redvalue=HIGH;

}

else

redvalue=LOW;

if(green>red&&green>blue)

{

greenvalue=HIGH;

}

else

greenvalue=LOW;

if(blue>red&&blue>green)

{

bluevalue=HIGH;

}

else

bluevalue=LOW;

digitalWrite(redout,redvalue);

digitalWrite(greenout,greenvalue);

digitalWrite(blueout,bluevalue);

}