IOTL\_Group\_B\_Assignment\_No\_9

9. Write a program to control the color of the LED by turning 3 different potentiometers. One will be read for the value of Red, one for the value of Green, and one for the value of Blue

int red\_light\_pin= 5;

int green\_light\_pin = 6;

int blue\_light\_pin = 3;

unsigned int red,green,blue;

void setup() {

pinMode(red\_light\_pin, OUTPUT);

pinMode(green\_light\_pin, OUTPUT);

pinMode(blue\_light\_pin, OUTPUT);

}

void loop() {

red = analogRead(A0);

red = (red/4);

green = analogRead(A2);

green = (green/4);

blue = analogRead(A3);

blue = (blue/4);

RGB\_color(255-red, 255-green, 255-blue); // Red

delay(1000);

/\*

RGB\_color(0, 255, 255); // Red

delay(1000);

RGB\_color(255, 0, 255); // Green

delay(1000);

RGB\_color(255, 255, 0); // Blue

delay(1000);

RGB\_color(0, 0, 125); // Raspberry

delay(1000);

RGB\_color(255, 0, 0); // Cyan

delay(1000);

RGB\_color(0, 255, 0); // Magenta

delay(1000);

RGB\_color(0, 0, 255); // Yellow

delay(1000);

RGB\_color(0, 0, 0); // White

delay(1000);

\*/

}

void RGB\_color(int red\_light\_value, int green\_light\_value, int blue\_light\_value)

{

analogWrite(red\_light\_pin, red\_light\_value);

analogWrite(green\_light\_pin, green\_light\_value);

analogWrite(blue\_light\_pin, blue\_light\_value);

}