**NAME :** DUDHE ANIL AJINATH

**ROLL NO :** SEAD21269

**SUBJECT :** Internet Of Things (IOT)

**CLASS :** SE

**BRANCH :** AI&DS

**DATE :**

**EXPERIMENT NO : 9**

**TITLE :**

**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.**

**CODE:**

**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);**

**delay(1000);**

**RGB\_color(0, 255, 255); // Red (show by removing comments without ning**

**delay(1000);**

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

**delay(1000);**

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

**delay(1000);**

**RGB\_color(0, 0, 125); // Raspbrry**

**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);**

**}**

**OUTPUT:**



