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Roll No: 10
Batch: S1
Practical No:9
AIM: Write a program to control LED color by turning 3 different potentiometers. One will
be read for the value of Red, one for Green and one for Blue.
CODE
:// Pin definitions int
redPin = 11; int greenPin
= 9; int bluePin
= 10; // Potentiometer
pins int potRed = A0; int
potGreen = A1; int
potBlue = A2;
// Variables to store potentiometer values int redValue
= 0; int greenValue = 0; int blueValue
= 0; void setup()
pinMode(redPin, OUTPUT); pinMode(greenPin, OUTPUT);
pinMode(bluePin, OUTPUT);
Serial.begin(9600);
void loop()
{
// Read values from potentiometers redValue =
                              greenValue
analogRead(potRed);
analogRead(potGreen);
                                blueValue
                                               =
analogRead(potBlue);
// Map 0-1023 to 0-255 redValue = redValue / 4; // or use map(redValue, 0,
1023, 0, 255); greenValue = greenValue / 4; blueValue = blueValue / 4;
// Write PWM values to the RGB pins analogWrite(redPin,
redValue);
                   analogWrite(greenPin,
                                              greenValue);
analogWrite(bluePin, blueValue);
// Print the values to the Serial Monitor
Serial.print("Red:\t");
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Serial.print(redValue);

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Serial.print("\tGreen:\t");
Serial.print(greenValue);
Serial.print("\tBlue:\t");
Serial.println(blueValue); delay(100);
}
```

Output:

