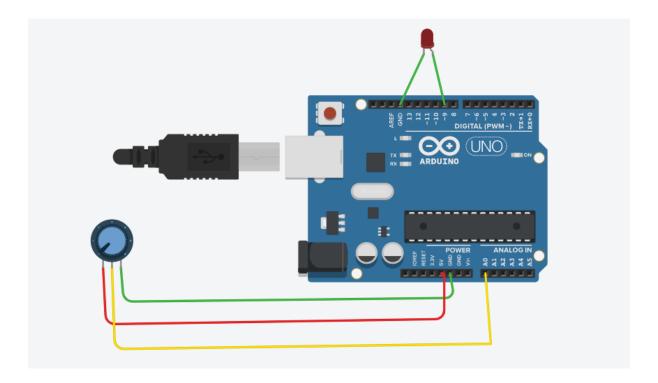
Potentiometer

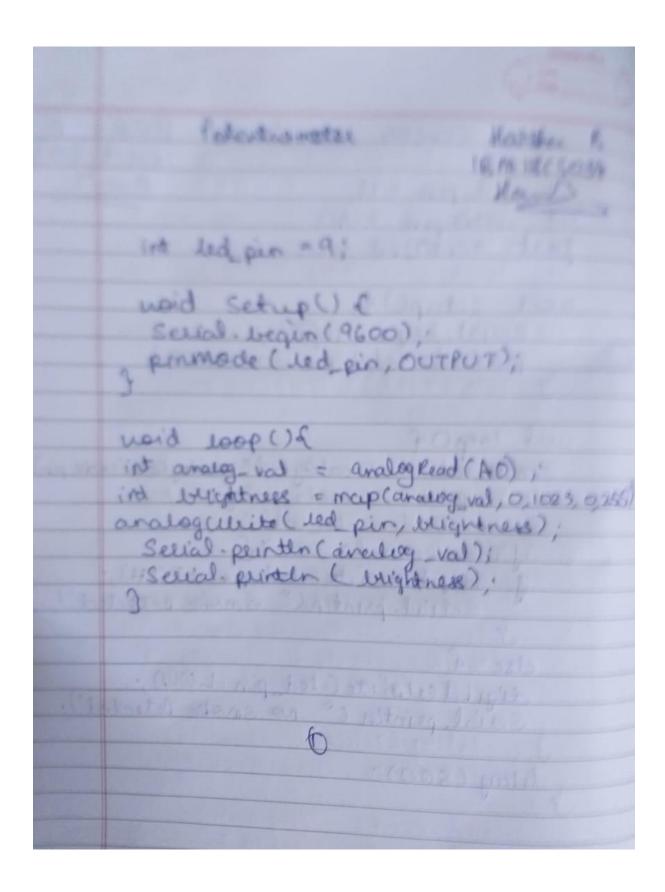
1BM18CS034

<u>Aim</u>: To control brightness of L.E.D by using potentiometer

Circuit Diagram



Handwritten Code



<u>Code</u>

```
int led_pin = 9;
void setup()
{
 Serial.begin(9600);
 pinMode(led_pin, OUTPUT);
}
void loop()
{
 int analog_val = analogRead(A0);
 int brightness = map(analog_val,0,1023,0,255);
 analogWrite(led_pin,brightness);
 Serial.print("Analog:");
 Serial.println(analog_val);
 Serial.print("Brightness:");
 Serial.println(brightness);
}
```

Observation/Output:

The brightness of L.E.D changes according to respective changes in potentiometer.