Name – Parag Gattani

Program No. – 04

Program Title – LED fading with potentiometer

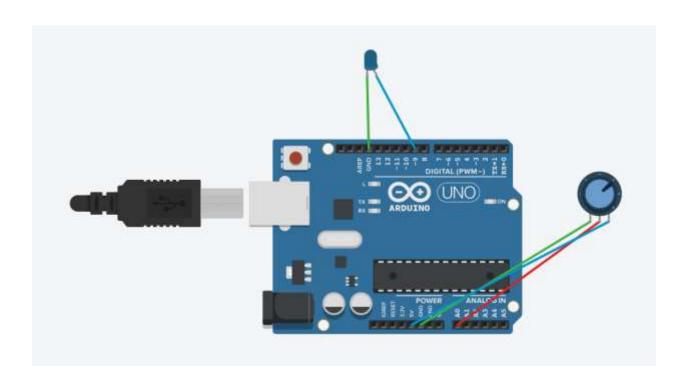
AIM

Demonstrate to show LED fading(analog output).

HARDWARES REQUIRED

- Arduino Board
- LED bulb
- Potentiometer

CIRCUIT DIAGRAM



WRITE-UP

Exp-3	
	LED FADING WITH POTENTIOMETER
	APm:
	To Demonstrate ONFOER of on LED Hang Rushbutton
	Tr.
	Demonstrate to show LED Jodling (Analog Output)
	Hardware Required:
	Audulno Board
	Potentionater
	LED Bulls
	CODE:
	Ent LED_PIN=9;
	void situp ()
	1
	Sireal, bigen (9600);
	panMade (LED -PIN, OUTPUT);
	void Loop!
	1 1111 - 100 1 (20):
	ent analog value = analytica (170)
	ent analog Value = analog Read (A0); ent busquinus = map (analog Value, 0, 1023, 0, 205); analog Wester (LED - PIN, busquitures);
	analogueta CESTIN, augustuss,
	source putil (many,
	Sural pulut (analog Value); Sural pulut (", Burghtness: ");
	Sureal putently brightness);
	dilay (100);

CODE

```
int LED_PIN = 9;
void setup()
{
 Serial.begin(9600);
 pinMode(LED_PIN, OUTPUT);
}
void loop()
{
 int analogValue = analogRead(A0);
 int brightness = map(analogValue, 0, 1023, 0, 255);
 analogWrite(LED_PIN, brightness);
 Serial.print("Analog: ");
 Serial.print(analogValue);
 Serial.print(", Brightness : ");
 Serial.println(brightness);
 delay(100);
```

OUTPUT

Fading of LED with potentiometer.