

Exp-3

Title - LED FADING WITH POTENTIOMETER

• Aim:-

Demonstrate to show LED Fading (Analog Output)

• Hardware Required-

Arduino Board

Potentiometer

LED Bulb

• CODE-

```
int ledPin = 9;
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(ledPin, OUTPUT);
```

```
}
```

```
void loop()
```

```
{  int analogValue = analogRead(A0);
```

```
    int brightness = map(analogValue, 0, 1023, 0, 255);
```

```
    analogWrite(ledPin, brightness);
```

```
    Serial.print("Analog:");
```

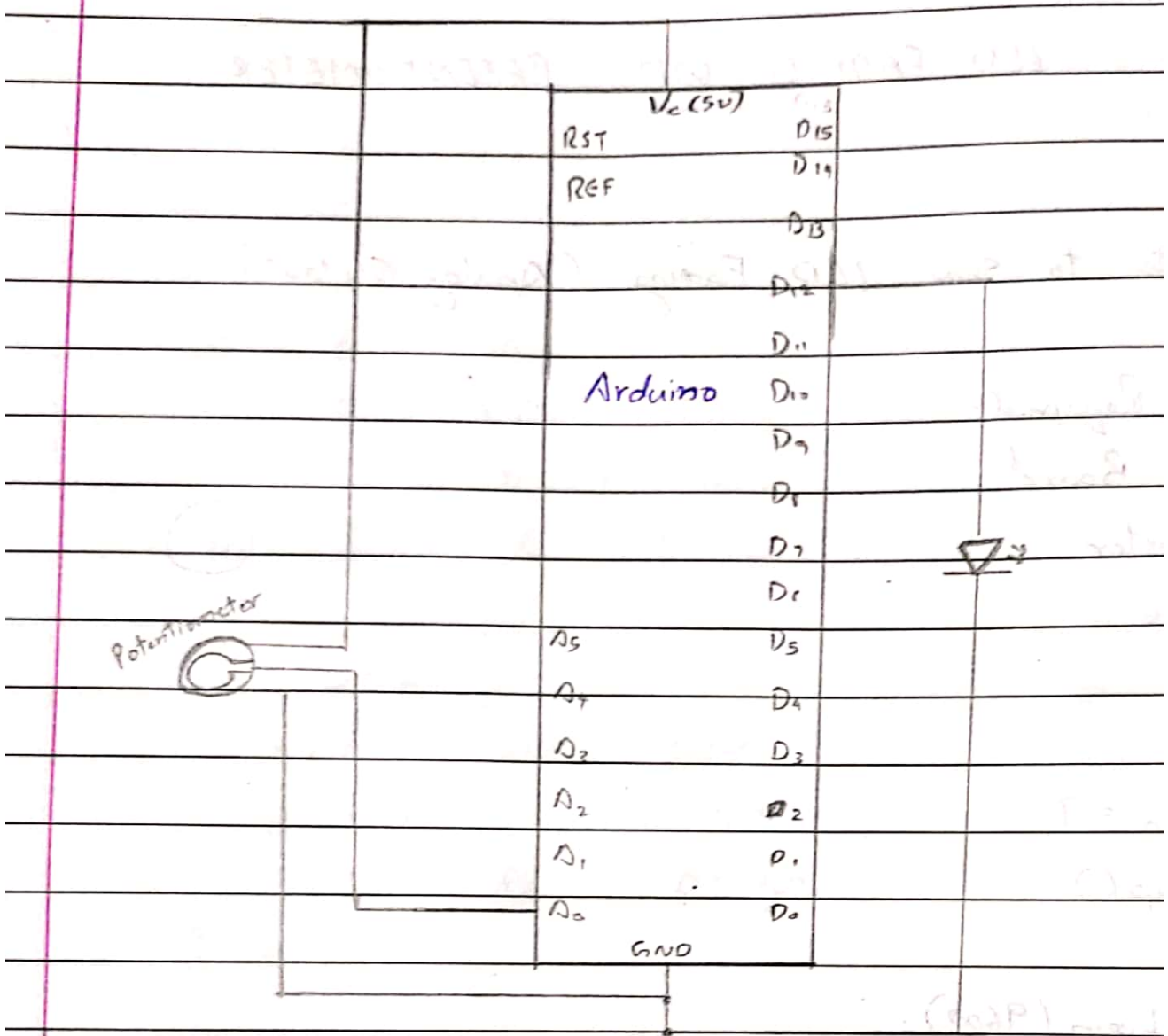
```
    Serial.print(analogValue);
```

```
    Serial.print(" , Brightness:");
```

```
    Serial.println(brightness);
```

```
    delay(100);
```

```
}
```



②