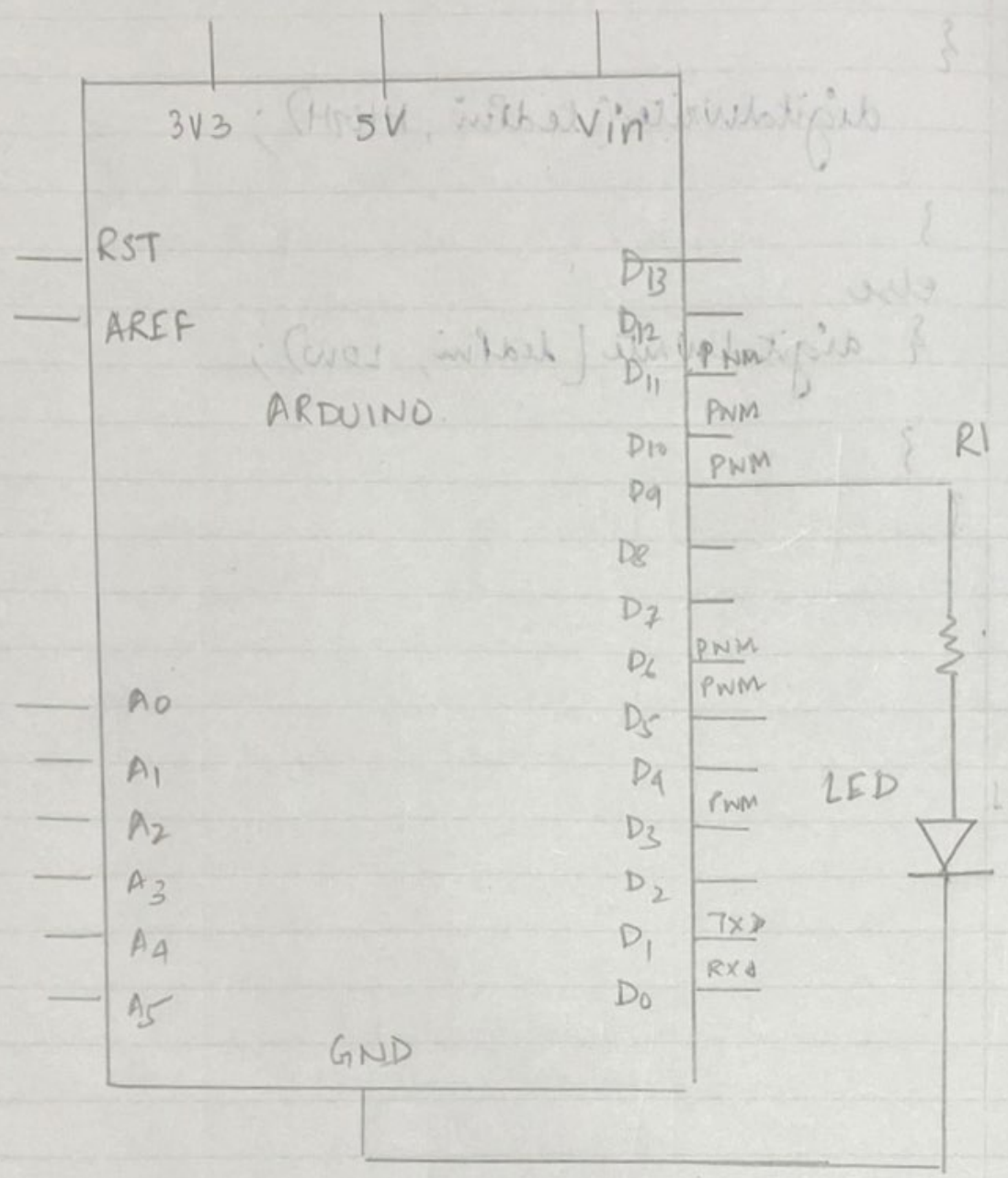


CIRCUIT DIAGRAM



Expt. No. 4

Page No. 6

Program Title: LED FADING

Aim: Demonstrate to show LED Fading (Analog output)

Hardware Required:

- Arduino board
- LED.

Code:-

```
int brightness = 0;
```

```
void setup()
```

```
{ pinMode(9, OUTPUT);  
}
```

```
void loop()
```

```
{ for (brightness = 0; brightness <= 255; brightness += 10)
```

```
{  
  analogWrite(9, brightness);  
  delay(50);  
}
```

```
for (brightness = 255; brightness >= 0; brightness -= 10)
```

```
{  
  analogWrite(9, brightness);  
  delay(50);  
}
```

```
}
```

Teacher's Signature : _____