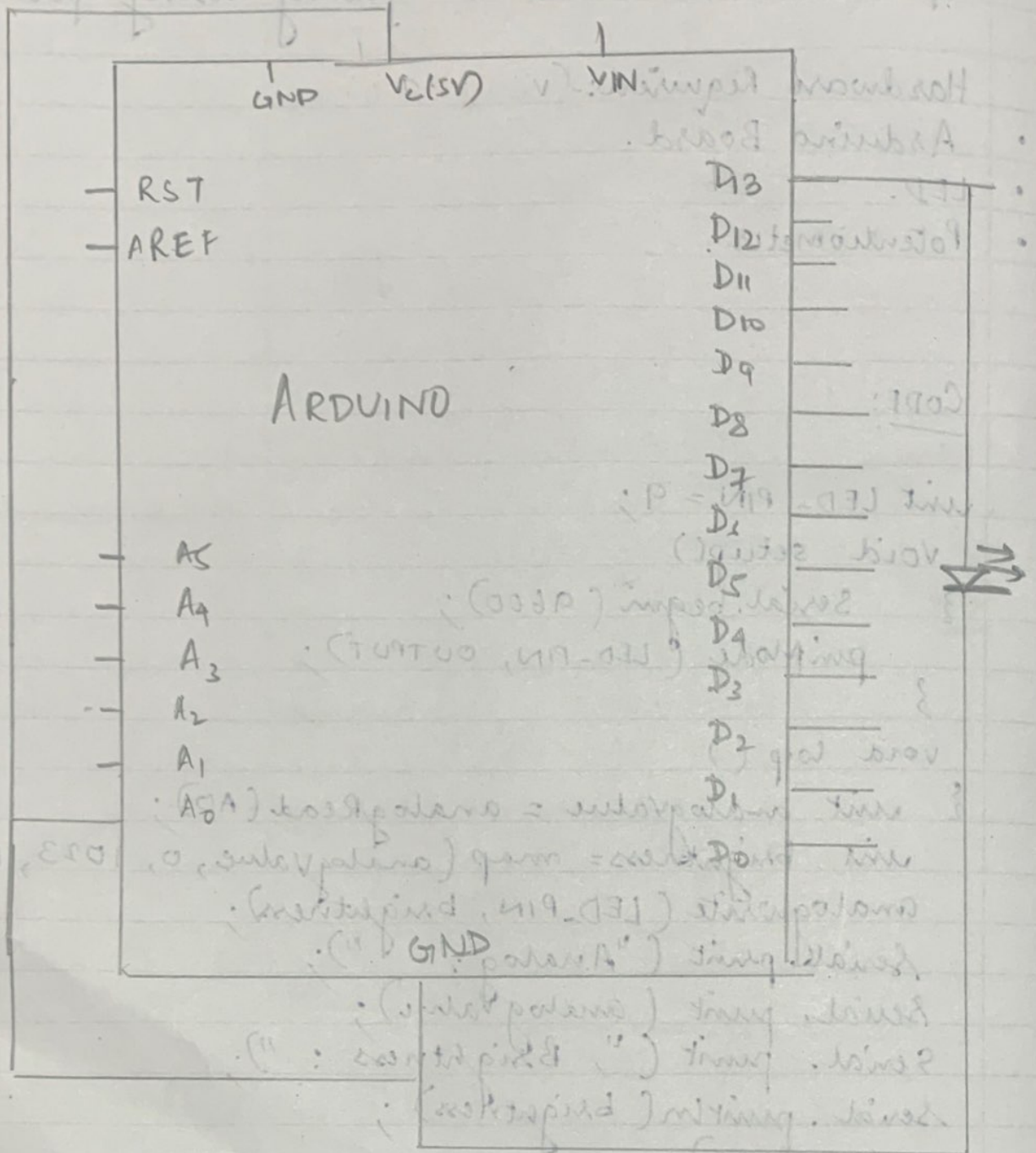


Circuit Diagram



AIM: Demonstrate to show ON/OFF of a LED using LDR - Night Light simulation.

Hardware Required :-

- LED
- Arduino Board
- Photoresistor
- Resistor
- Breadboard

CODE:

```
const int ledPin = 8;  
const int ldrPin = A0;
```

```
void setup()  
{  
  Serial.begin(9600);  
  pinMode(ledPin, OUTPUT);  
  pinMode(ldrPin, INPUT);  
}
```

```
void loop()  
{  
  int ldrStatus = analogRead(ldrPin);  
  Serial.println(ldrStatus);  
}
```

Teacher's Signature : _____

```
if (ldstatus <= 10)
{
    digitalWrite (ledPin, HIGH);
    Serial.println ("LDR IS DARK, LED is ON");
}
else
{
    digitalWrite (ledPin, LOW);
    Serial.println ("-----");
}
}
```

Teacher's Signature : _____