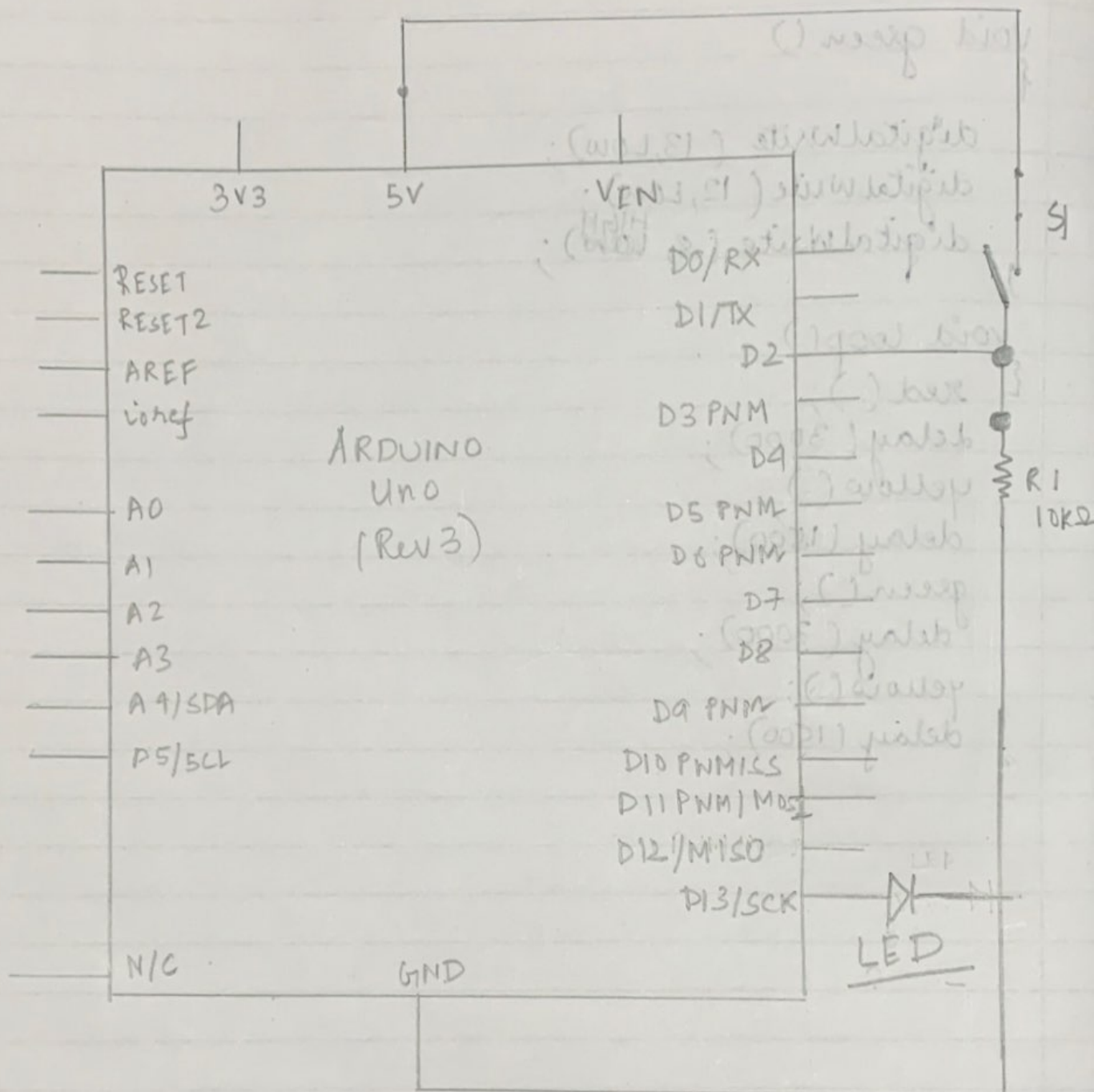


CIRCUIT DIAGRAM:



Program Title: LED Using Pushbutton.

Aim: Demonstrate to show ON/OFF of a LED using Pushbutton (Digital output)

→ Hardware Required:-

- LED
- Arduino Board
- Pushbutton, Resistor.

Code:

```
const int buttonPin = 2;  
const int ledPin = 13;  
int buttonState = 0;
```

```
void setup()  
{
```

```
  pinMode(ledPin, OUTPUT);  
  pinMode(buttonPin, INPUT);  
}
```

```
void loop()  
{
```

```
  buttonState = digitalRead(buttonPin);  
  if(buttonState == HIGH)
```

Teacher's Signature : _____

{

digitalWrite (ledPin, HIGH);

}

else

{ digitalWrite (ledPin, LOW);

}

}

Teacher's Signature : _____