Lab - 07
Connecting an LED

Problem

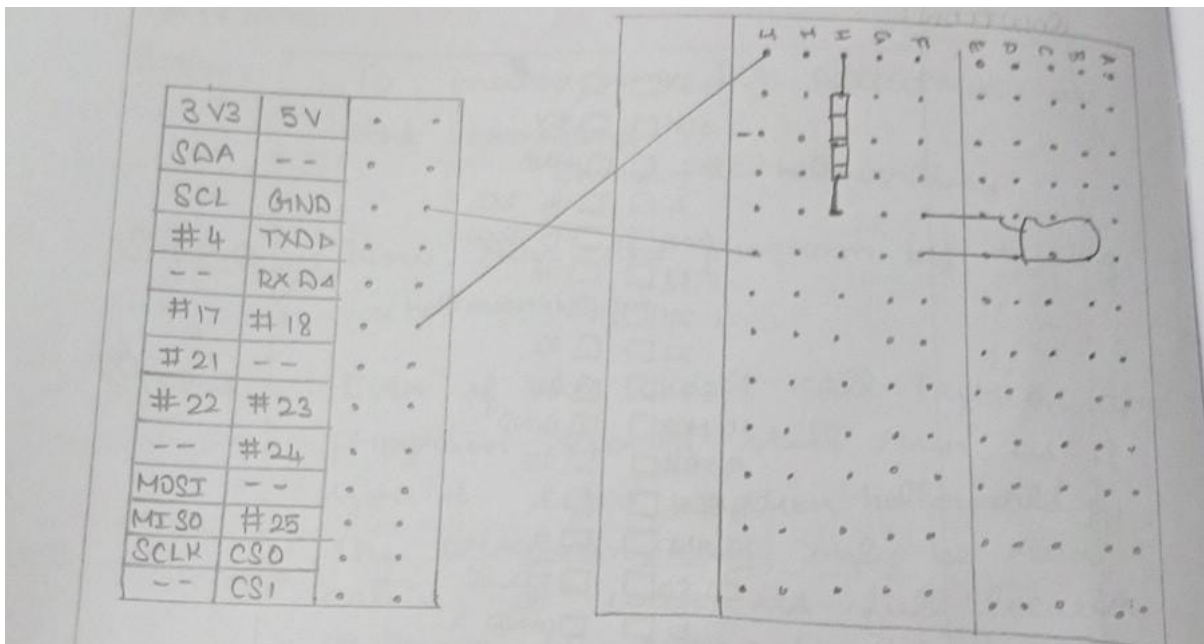You want to know how to connect an LED to the Raspberry
Pi.

Solution

Connect an LED to one of the GPIO pins using a 470 or 1k series
resistor to limit the current.

Components Required:

- Breadboard and jumper wires
- 470 resistor
- LED

Procedure:

- Set up the connections as mentioned in the circuit diagram.

- Start a Python console from the Terminal with super user access and enter the below commands.

Code:

```
pi@raspberrypi ~ $ sudo python
>>> import RPi.GPIO as GPIO
>>> GPIO.setmode(GPIO.BCM)
>>> GPIO.setup(18, GPIO.OUT)
>>> GPIO.output(18, True)
>>> GPIO.output(18, False)
```

Output:

This will turn your LED on and off.