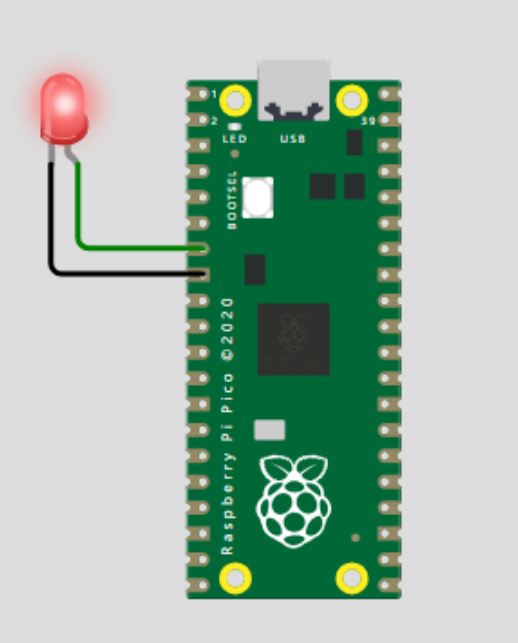
Practical 8

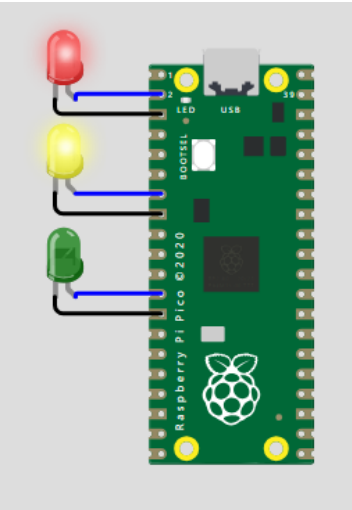
Study and implementation of LED Interfacing with raspberry pi.

LED Blink

```
from machine import Pin
from utime import sleep

led = Pin(5, Pin.OUT)
while True:
  led.toggle()
  sleep(0.5)
```



Trafic Light

```
#define RED 1
#define YELLOW 5
#define GREEN 9

void setup() {
  pinMode(RED, OUTPUT);
  pinMode(YELLOW, OUTPUT);
  pinMode(GREEN, OUTPUT);
}

void loop() {
  digitalWrite(GREEN, HIGH);
  delay(3000);

  digitalWrite(GREEN, LOW);
  digitalWrite(YELLOW, HIGH);
  delay(500);

  digitalWrite(YELLOW, LOW);
  digitalWrite(RED, HIGH);
  delay(2000);

  digitalWrite(YELLOW, HIGH);
  delay(500);
  digitalWrite(YELLOW, LOW);
  digitalWrite(RED, LOW);
}
```