

## ASSIGNMENT 3

Date	14 OCT 2022
Team ID	PNT2022TMID47588
Project Name	Smart Solutions for Railways
Maximum Marks	

Write python code for blinking LED and Traffic lights for Raspberry pi.

Only python code is enough, no need to execute in raspberry pi.

Note: you are allowed to use web search and complete the assignment.

### **CODING:**

```
from time import sleep
led_blue= Pin(4,Pin.OUT)
led_white = Pin(5,Pin.OUT)
led_red = Pin(21,Pin.OUT)
while True:
    led_blue.value(1)# to turn the LED ON
    sleep(0.25)
    led_blue.value(0)# to turn the LED OFF
    sleep(0.25)
    led_white.value(1)# to turn the LED ON
    sleep(0.25)
    led_white.value(0)# to turn the LED OFF
    sleep(0.25)
```

led\_red.value(1)# to turn the LED ON

sleep(0.25)

led\_red.value(0)# to turn the LED OFF

sleep(0.25)

led\_white.value(1)# to turn the LED ON

sleep(0.25)

led\_white.value(0)# to turn the LED OFF

sleep(0.25)

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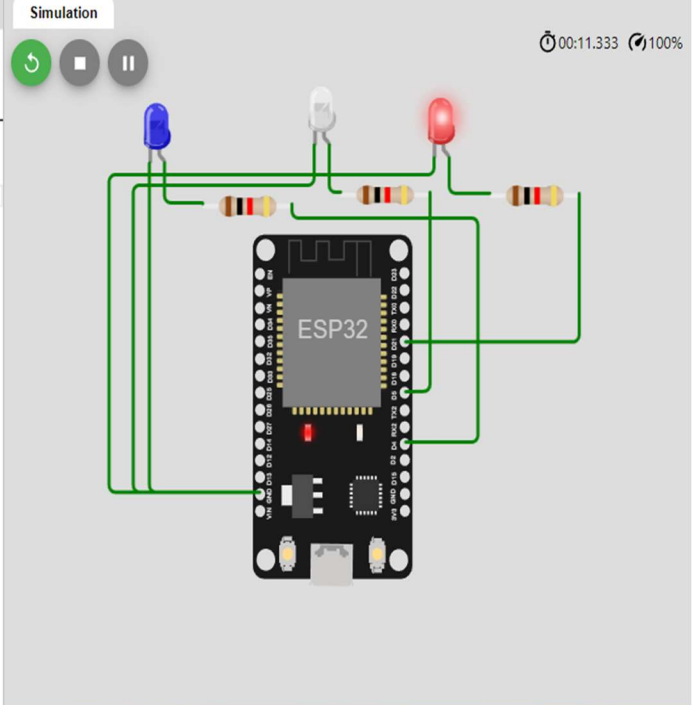
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main.py diagram.json

```
1 from machine import Pin
2 from time import sleep
3 led_blue= Pin(4,Pin.OUT)
4 led_white = Pin(5,Pin.OUT)
5 led_red = Pin(21,Pin.OUT)
6 while True:
7     led_blue.value(1)# to turn the LED ON
8     sleep(0.25)
9     led_blue.value(0)# to turn the LED OFF
10    sleep(0.25)
11    led_white.value(1)# to turn the LED ON
12    sleep(0.25)
13    led_white.value(0)# to turn the LED OFF
14    sleep(0.25)
15    led_red.value(1)# to turn the LED ON
16    sleep(0.25)
17    led_red.value(0)# to turn the LED OFF
18    sleep(0.25)
19    led_white.value(1)# to turn the LED ON
20    sleep(0.25)
21    led_white.value(0)# to turn the LED OFF
22    sleep(0.25)
```

Simulation

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Windows Taskbar: Type here to search, 26°C Cloudy, 8:41 AM, 10/13/2022