

Assignment -3

Assignment Date	7 OCTOBER 2022
Student Name	VINAYAGA MOORTHY.R
Student Roll Number	AC19UCS138
Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

Solution:

```
import time
```

```
from machine import Pin
```

```
led=Pin(13,Pin.OUT)    #create LED object from pin13,Set Pin13 to output
```

```
while True:
```

```
    led.value(1)        #Set led turn on
```

```
    time.sleep(0.5)
```

```
    led.value(0)        #Set led turn off
```

```
    time.sleep(0.5)
```

```
from gpiozero import Button, TrafficLights, Buzzer
```

```
from time import sleep
```

```
buzzer = Buzzer(15)
```

```
button = Button(21)
```

```
lights = TrafficLights(25, 8, 7)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    buzzer.on()
```

```
    light.green.on()
```

```
    sleep(1)
```

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off()

buzzer.off()