

**Assignment -1**  
Thinkercad Programming

Assignment Date	04 October 2022
Student Name	Mrs. SWAPNA V
Student Roll Number	AC19UCS123
Maximum Marks	2 Marks

**Question-1:**

Write python code for blinking LED in Raspberry pi.

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

**Solution:**

```
import time
from machine import Pin
light=Pin(14,Pin.OUT)
while True:
    light.value(1)
    time.sleep(0.5)
    light.value(0)
    time.sleep(0.5)
```

**Question-2:**

Write python code for Traffic lights in Raspberry pi.

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

**Solution:**

```
from gpiozero import Button, TrafficLights, Buz
from time import sleep
buzzer = Buz(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()
```