

Assignment -1
Thinkercad Programming

Assignment Date	19 September 2022
Student Name	Mr. SWITHIN ASIR
Student Roll Number	AC19UCS125
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
led=Pin(14,Pin.OUT)
while True:
    led.value(1)
    time.sleep(0.5)
    led.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, 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()
```