# Assignment -3

Assignment Date	
Student Name	Manojkumar G
Student Roll Number	20ECL10
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. Note: you are allowed to use web search and complete the assignment.

### **Solution:**

### **BUTTON**

from gpiozero import Button button = Button(21) while True: print(button.is\_pressed) while True: button.wait\_for\_press() print("Pressed") button.wait\_for\_release() print("Released") from gpiozero import Button, LED led = LED(25)while True: button.wait\_for\_press() led.on() button.wait\_for\_release() led.off() while True: led.on() button.wait\_for\_press() led.off() button.wait\_for\_release() while True: led.blink() button.wait\_for\_press() led.off() button.wait\_for\_release()

# **TRAFFIC LIGHTS**

from gpiozero import Button, TrafficLights lights = TrafficLights(25, 8, 7) while True: button.wait\_for\_press() lights.on() button.wait\_for\_release() lights.off() while True: lights.blink() button.wait\_for\_press()

lights.off()

button.wait\_for\_release()

# **TRAFFIC LIGHTS SEQUENCES**

from time import sleep

while True:

lights.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off()

while True:

button.wait\_for\_press()

lights.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off()