## Assignment -3

Assignment Date	
Student Name	Poornima R
Student Roll Number	20ECL12
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()