ASSIGNMENT3

NISHA S- 962719104027

BATCH:-B9-3A5E

Write python code for blinking LED and Traffic lights for Raspberry pi.

```
From gpiozero import Button
button = Button(21)
while True:
 print(button.is_pressed)
while True:
 if button.is_pressed:
 print(“Hello”)
 else:
 print(“Goodbye”)
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.blink()
 button.wait_for_press()
 led.off()
 button.wait_for_release()
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()
from gpiozero import Button, TrafficLights, Buzzer
buzzer = Buzzer(15)
while True:
 lights.on()
 buzzer.off()
 button.wait_for_press()
 lights.off()
 buzzer.on()
 button.wait_for_release()
while True:
 lights.blink()
```

```
 buzzer.beep()
 button.wait_for_press()
 lights.off()
buzzer.off()
button.wait_for_release()
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()
```