**ROLL NO: 1902026**

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TITLE: CRAETE A PYTHON CODE FOR BLINKING LED’S 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")

Add an LED

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 sequence

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()