ASSIGNMENT-3

led = LED(25)

while True:

button.wait_for_press()

Python Programming

STUDENT NAME: A.STANLY MATHEW RAJ 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:** 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.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()
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)
```