**Professional Readiness for**

**Innovation, Employability and Entrepreneurship**

**ASSIGNMENT-3**

**Python Code For:**

**(i) Blinking Led for Rasperry pi**

**(ii) Traffic Light for Rasperry pi**

## Submitted By:

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## INTERNET OF THINGS**–B12-6A2E**

## Python Code For Traffic Light:

**from gpiozero import Button, TrafficLights, Buzzer**

**from time import sleep**

**buzzer = Buzzer(15)**

**button = Button(21)**

**lights = TrafficLights(25, 8, 7)**

**while True:**

**button.wait\_for\_press()**

**buzzer.on()**

**light.green.on()**

**sleep(1)**

**lights.amber.on() sleep(1)**

**lights.red.on()**

**sleep(1)**

**lights.off()**

**buzzer.off()**

## Python Code For Blinking Led :

**import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library**

**from time import sleep # Import the sleep function from the time module**

**GPIO.setwarnings (False) # Ignore warning for now**

**GPIO.setmode (GPIO.BOARD) # Use physical pin numbering**

**GPIO.setup (8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)**

**while True: # Run forever**

**GPIO.output(8, GPIO.HIGH) # Turn on**

**sleep(1) # Sleep for 1 second**

**GPIO.output(8, GPIO.LOW) # Turn off**

## sleep(1) # Sleep for 1 second