

Professional Readiness for Innovation, Employability and Entrepreneurship

ASSIGNMENT:3

Python Code:

(i) Blinking Led for Raspberry pi

(ii) Traffic Light for Raspberry pi

Submitted By:

Kavipriya Devi. V

961819106032

B12-6A2E

Python Code : 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 : 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
```