**ASSIGNMENT 3 – S.KARTHIKSANKAR**

**CODE:**

|  |
| --- |
| //Code for Blinking LED// |
|  |  |
|  | import RPi.GPIO as GPIO |
|  | import time |
|  | LED = 40 |
|  | GPIO.setwarnings(False) |
|  | GPIO.setmode(GPIO.BOARD) |
|  | GPIO.setup(LED, GPIO.OUT) |
|  |  |
|  | while True: |
|  |  |
|  | GPIO.output(LED,GPIO.HIGH) |
|  | time.sleep(1) |
|  | GPIO.output(LED,GPIO.LOW) |
|  | time.sleep(1) |
|  |  |
|  |  |
|  | //Code for Traffic Light System// |
|  |  |
|  | 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() |