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| ASSIGNMENT DATE | 5 OCT 2022 |
| STUDENT NAME | SANDEEP PB |
| TEAM ID | PNT2022TMID36136 |

**Assignment -3**

Python Programming

**Question-1:**

Build a python code for raspberry pi,Code for blink LED and Traffic Light System.

**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()