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| Name | Tamilarasan D |
| Student Roll Number | 713319CS156 |
| Maximum Marks | 2 Marks |

**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.**

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)

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()