Assignment -3

Python Programming

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| Assignment Date | 13 October 2022 |
| Student Name | R.Sanmathi |
| Student Roll Number | 820419104057 |
| Maximum Marks | 2 Marks |

**Question-1:**

**1.Write a python code for blinking LED and Traffic lights for Raspberry Pi?**

**Blinking LED**

Import RPi.GPIO as GPIO

From time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

**While True: # Run forever**

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

Sleep(1)

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

Sleep(1)

**Traffic lights**

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()