**Assignment - 3**

Python Programming

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| Assignment Date | 1 October 2022 |
| Student Name | Arunesh M |
| Student Roll Number | 721219106005 |
| Maximum Marks | 2 Marks |

**Question-1:**

Write a python code blinking a LED for Raspberry pi

**Solution:**

*Code:*

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

**Question-2:**

Write a python code Traffic lights for Raspberry pi

**Solution:**

*Code:*

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()