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| Assignment Date | 02 October 2022 |
| Student Name | Gopikrishnan K |
| Student Roll Number | 310819205033 |
| Maximum Marks | 2 Marks |

**1. Raspberry Pi Program to Blink A LED.**

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

**2. Raspberry Pi Program for Traffic Light.**

from gpiozero import Buzzer from gpiozero import Button

from gpiozero import LED

from time import sleep

button = Button (21) buzzer = Buzzer (15)

redled = LED(25)

yellowled = LED(8) greenled = LED(7)

while True:

if button.is\_pressed:

redled.on()

buzzer.on()

sleep(2)

redled.off()

buzzer.off()

yellowled.on()

sleep(2)

yellowled.off()

greenled.on()

sleep(2)

greenled.off()

break