| Assignment Date | 02 October 2022 |
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| Student Name | Sanjay Anand L |
| Student Roll Number | 310819106072 |
| 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**