

## **Assignment -3**

### **Question:**

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

#### **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
```