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