Assignment -3

Assignment Date	29 September 2022
Student Name	Evangeline.S
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi

Program:

Blinking LED:

import RPi.GPIO as GPIO

import time

#assign numbering for the GPIO using BCM

GPIO.setmode(GPIO.BCM)

#assingn number for the GPIO using Board

#GPIO.setmode(GPIO.BOARD)

```
cnt = 0
```

MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds

 $RED_LED = 4$

GPIO.setup(RED_LED, GPIO.OUT)

while True:

if cnt == 0:

GPIO.output(RED_LED, False)

cnt = 1

else:

GPIO.output(RED_LED, True)

cnt = 0

time.sleep(MAIL_CHECK_FREQ)

GPIO.cleanup()

Question2:write a python code for traffic light for Raspberry Pi

Program:

Traffic lights for Raspberry pi:

```
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()