IBM ASSIGNMENT - 3

Python Programming

Assignment Date	06 October 2022
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Write python code for blinking LED and Traffic lights for Raspberry Pi.

CODE FOR BLINKING LED:

import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

cnt = 0

MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds

 $RED_LED = 4$

GPIO.setup(RED_LED, GPIO.OUT)

while True:

ifcnt == 0 :

GPIO.output(RED_LED, False)

cnt = 1

else:

```
GPIO.output(RED_LED, True)

cnt = 0

time.sleep(MAIL_CHECK_FREQ)

GPIO.cleanup()
```

CODE FOR TRAFFIC LIGHTS:

```
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()

```
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()
```