IBM ASSIGNMENT 3

Assignment Date	October 5, 2022
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Maximum marks	2 Marks

Question-1:Write python code for blinking LED and Traffic lights for Raspberry pi

PROGRAM:

Program for LED interface with Raspberry pi:

```
------------------
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:
ifcnt == 0 :
GPIO.output(RED_LED, False)
cnt = 1
else:
GPIO.output(RED_LED, True)
cnt = 0

time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

Program for traffic light interface with 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()
```