Assignment -3

Python Programming

Assignment Date	06 October 2022
Student Name	Mr.J.JEGAN
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Maximum Marks	2 Marks

Question-1:

WRITE A PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI.

PROGRAM:

IBM.py - C:/Users/user/AppData/Local/Programs/Python/Python37/IBM.py (3.7.0)

GPIO.output(RED_LED, True)

time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()

```
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()
```

```
WRITE A PYTHON CODE FOR TRAFFIC LIGHT RASPBERRY PI.
PROGRAM:
           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()
| BMM.py - C:/Users/user/AppData/Local/Programs/Python/Python37/IBMM.py (3.7.0)
| File Edit Format Run Options Window Help
| 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.red.on()
sleep(1)
buzzer.off()
```

Question-2: