ASSIGNMENT-3

Python Program

Assignment Date	03 October 2022
Student Name	Angalaparameshwari.A
Student Roll Number	812019106004
Maximum Marks	2 Marks

Question-1

Write python code for blinking LED and Traffic lights for Raspberry pi.Only python code is enough, no need to execute in raspberry pi.

Code:

```
#Blinking LED


import RPi.GPIO as GPIO import
time GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(18,GPIO.OUT)
print("LED on")
GPIO.output(18,GPIO.HIGH)
time.sleep(1)
print("LED off")
GPIO.output(18,GPIO.LOW)
```

```
#Traffic Light

from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)


#Button                  21
#Red LED                  25
#Yellow LED                08
#Green LED                 07
#Buzzer                  15
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()
```

In Compiler:

```
#Blinking LED

import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(18,GPIO.OUT)
print("LED on") GPIO.output(18,
GPIO.HIGH)
time.sleep(1)
print("LED off")
GPIO.output(18,GPIO.LOW)

#Traffic Light
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(15)
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#Button                          21
#Red LED                         25
#Yellow LED                      08
#Green LED                       07
#Buzzer                          15
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()
```