ASSIGNMENT-3

Python Program

Assignment Date	03 October 2022
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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 inraspberry 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: