Assignment -3

Python Programming

Assignment Date	01 October 2022
Student Name	Mr. M.DIWAKAR
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Maximum Marks	2 Marks

Question-1:

Write a python code for blinking LED and Traffic Lights for Raspberry pi.

Note: *Only Python Code is enough, No need to execute in raspberry pi.

Solution:

```
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11, GPIO.OUT)
while True:
  GPIO.output(11,True)
  time.sleep(1)
  GPIO.output(11,False)
  time.sleep(1)
from gpiozero import Button, TrafficLights, Buzzer
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
  button.wait_for_press()
  light.green.on()
  sleep(1)
  lights.amber.on()
  sleep(1)
  lights.red.on()
  sleep(1)
  lights.off()
while True:
  lights.on()
  buzzer.off()
  button.wait_for_press()
  lights.off()
  buzzer.on()
  button.wait_for_release()
while True:
  lights.blink()
  buzzer.beep()
  button.wait_for_press()
  lights.off()
  buzzer.off()
  button.wait_for_release()
```