ASSIGNMENT 3 : PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY Pi

DATE	**07/10/2022**
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MAXIMUM MARKS	**2 MARKS**

CODE:

```
#BLINKING LED WITH RPi.GPIO LIBRARY
import RPi.GPIO as GPIO
import time
ledPin = 16
GPIO.setmode(GPIO.BOARD)
GPIO.setwarnings(False)
GPIO.setup(ledPin,GPIO.OUT)
while True:
    GPIO.output(ledPin,GPIO.HIGH)
    Print('LED ON')
    time.sleep(1)
    GPIO.output(ledPin,GPIO.LOW)
    Print('LED OFF')
    time.sleep(1)
#BLINKING TRAFFIC LIGHTS USING gpiozero LIBRARY
from gpiozero import Button , TrafficLights , Buzzer
from time import sleep
red     = LED(5)
```

```
yellow    = LED(6)
green     = LED(13)
buzzer = Buzzer(15)
button = Button(21)
lights    = TrafficLights(5,6,13)
while True:
    button.wait_for_press()
    light.green.on()
    sleep(1)
    lights.yellow.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()
```