

ASSIGNMENT-3

PYTHON PROGRAMMING

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MAXIMUM MARKS:	

QUESTION:

Write python code for blinking LED and Traffic lights for Raspberry pi.

SOLUTION:

#BLINKING LED:

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial = GPIO.LOW)
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)
```

#TRAFFIC LIGHTS:

```
from gpizero import Button, Traffic Lights, 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()
```

