

Assignment -3
Python Programming

Assignment Date	06/10/2022
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Student Roll Number	811519106083
Maximum Marks	2 Marks

```
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()
```