

Assignment -3
Python Programming

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| Assignment Date | 6 October 2022 |
| Student Name | Roshana S |
| Student Roll Number | 811519106116 |
| 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 in raspberry pi.

CODE:

```
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()
```

```
    buzzer.on()
```

```
    light.green.on()
```

```
    sleep(1)
```

```
    lights.amber.on()
```

```
    sleep(1)
```

```
    lights.red.on()
```

```
    sleep(1)
```

```
    lights.off()
```

```
    buzzer.off()
```

