

Assignment -3
Python Programming

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| Assignment Date | 5-OCTOBER-2022 |
| Student Name | S. HARSHINI |
| Student Roll Number | 913119106031 |
| Maximum Marks | 2 Marks |

Question-1: Write python code for blinking LED and Traffic lights for Raspberry pi

Solution :

```
from gpiozero import Button, TrafficLights, 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()
```

python code for blinking light

```
import RPi.GPIO as GPIO
import time
LED = 40
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(LED, GPIO.OUT)
```

```
while True:
```

```
GPIO.output(LED, GPIO.HIGH)
time.sleep(1)
GPIO.output(LED, GPIO.LOW)
time.sleep(1)
```