

## Assignment -3

### Python Programming

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#### Question-1:

Write a python code for led blinking in

raspberry pi **SOLUTION:**

`GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)`

`while True: # Run forever`

`GPIO.output(8, GPIO.HIGH) #`

`Turn on sleep(1) # Sleep for 1`

`second GPIO.output(8,`

`GPIO.LOW) # Turn off sleep(1) #`

`Sleep for 1 second`

```
File Edit Format Run Options Window Help
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now
GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)

while True: # Run forever
    GPIO.output(8, GPIO.HIGH) # Turn on
    sleep(1) # Sleep for 1 second
    GPIO.output(8, GPIO.LOW) # Turn off
    sleep(1) # Sleep for 1 second
```

## Question-2:

Write a python code for traffic light in

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()
```



```
File Edit Format Run Options Window Help  
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()
```