

ASSIGNMENT III

Submitted by,

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Question:

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

Solution:

BLINKING LED

Python Code:

```
import RPi.GPIO as GPIO
```

```
import time
```

```
GPIO.setmode(GPIO.BOARD)
```

```
GPIO.setup(7,GPIO.OUT)    // LED is connected to 7th pin
```

While True:

```
    GPIO.output(7,True)    //LED is Turned on
```

```
    Time.sleep(1)
```

```
    GPIO.output(7,False)  //LED is Turned off
```

```
    Time.sleep(1)
```

```
GPIO.cleanup()
```

TRAFFIC LIGHT

Python Code:

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7,GPIO.OUT)    // RED LED is connected to 7th pin
GPIO.setup(11,GPIO.OUT)   //YELLOW LED is connected to 11th pin
GPIO.setup(13,GPIO.OUT)   //GREEN LED is connected to 13th pin
While True:
    GPIO.output(7,True)    //RED LED is Turned on
    print("STOP")
    Time.sleep(2)
    GPIO.output(7,False)   //RED LED is Turned off

    GPIO.output(11,True)   //YELLOW LED is Turned on
    print("READY")
    Time.sleep(1)
    GPIO.output(11,False)  //YELLOW LED is Turned off

    GPIO.output(13,True)   //GREEN LED is Turned on
    print("GO")
    Time.sleep(3)
    GPIO.output(13,False)  //GREEN LED is Turned off
GPIO.cleanup()
```