# IBM ASSIGNMENT - 3

## Write a python code for blinking LED and traffic light for Rasperry Pi

```python
import RPi.GPIO as IO # calling header file for GPIO's of PI

import time # calling for time to provide delays in program



IO.setmode (IO.BOARD) # programming the GPIO by BOARD pin numbers,
GPIO21 is called as PIN40


IO.setup(40,IO.OUT) # initialize digital pin40 as an output.


IO.output(40,1) # turn the LED on (making the voltage level HIGH)


time.sleep(1) # sleep for a second


IO.cleanup() # turn the LED off (making all the output pins LOW)


time.sleep(1) #sleep for a second
```
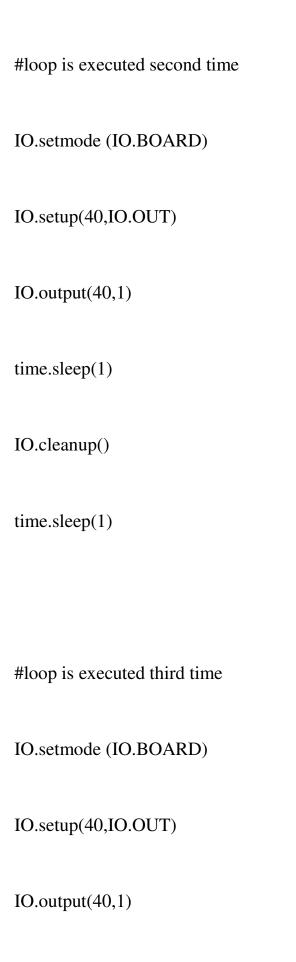
```
#loop is executed second time

IO.setmode (IO.BOARD)

IO.setup(40,IO.OUT)

IO.output(40,1)

time.sleep(1)

IO.cleanup()

time.sleep(1)



#loop is executed third time

IO.setmode (IO.BOARD)

IO.setup(40,IO.OUT)

IO.output(40,1)
```

```
        time.sleep(1)


        IO.cleanup()


        time.sleep(1)
```