Traffic LightSimulator

By Team 15



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Here we will describe and introduce the project









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ABOUT PROJECT

This is a Traffic Light simulator coded in emu8086. Emu8086 is a Microprocessor Emulator with an integrated 8086 Assembler.

OBJECTIVE

- To design a working simulation of traffic-light on crossroad
- The long term goal of the project is to create a dynamic traffic light system that would avoid traffic and would ensure safety.
- It would decrease the accident level on roads due to traffic light failure.



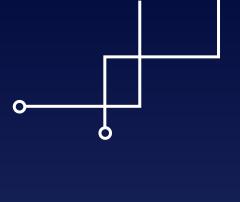


ABSTRACT

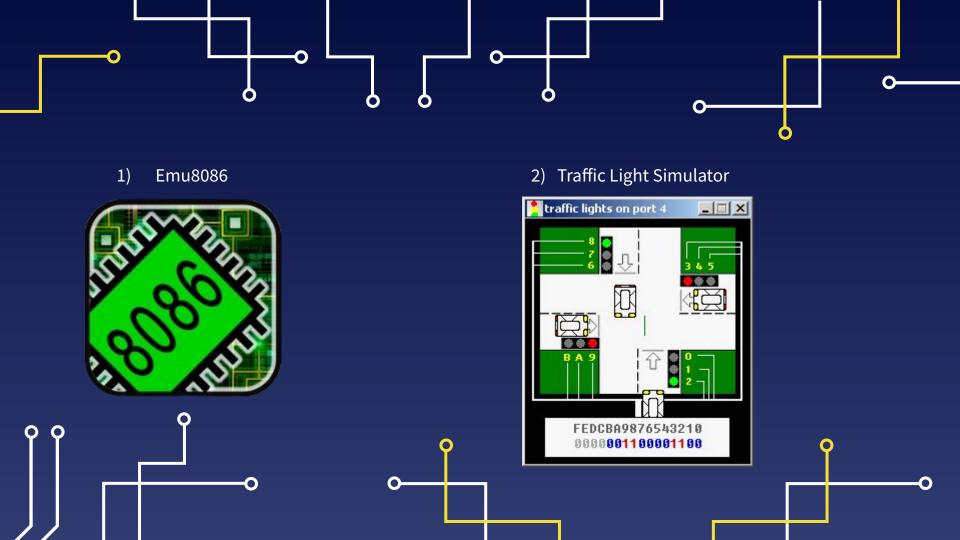


- The efforts required in achieving the desired output can be effectively and economically be decreased by the implementation of better designs and algorithm. Traffic Lights play a crucial role in regulating traffic across street to prevent confusion and ambiguity, thus traffic light somehow also regulates our economy.
- The traffic light work on the principle of circular queue without any external intervention, thus this automated solution can help in reducing errors in operation to maximum extent.
- The significance and purpose of this project is to provide a algorithm that consumes less space and time.























```
c:\emu8086\devices\Traffic Lights.exe
                                                             cx, OFH
                                                    mov
                                                            dx, 4240H
                                                    mov
#start=Traffic Lights.exe#
                                                            ah, 86h
                                                    mov
                                                            15h
name "traffic"
                                                    add si, 2; next situation
                                                    cmp si, sit end
out 4, ax
                                                    mov si, offset situation
                                                    jmp next
mov si, offset situation
                                                                              FEDC BA98 7654 3210
                                                                              0000 0011 0000 1100b
                                                    situation
mov ax, [si]
out 4, ax
                                                                     dw
 ; wait 1 seconds (1 million microseconds)
                                                                     dw
        cx, OFH
        dx, 4240H
        ah, 86h
        15h
                                                                     equ
```





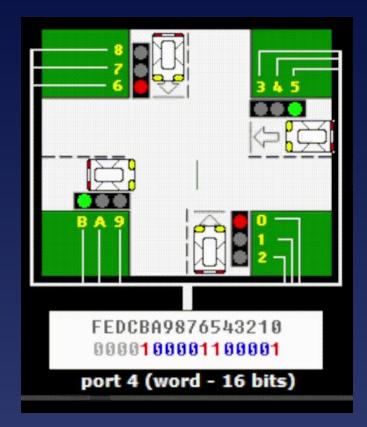


Here we would describe the output generated after executing the code











THANK YOU



