

# MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY



Course Code : CSE-306

[Group\_B4] Circuit Diagram for MPME project

[Project name] "A Game of Pong"

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Level/Term : 3/1  
Course : CSE-18B  
Date of exp :  
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Group : B4  
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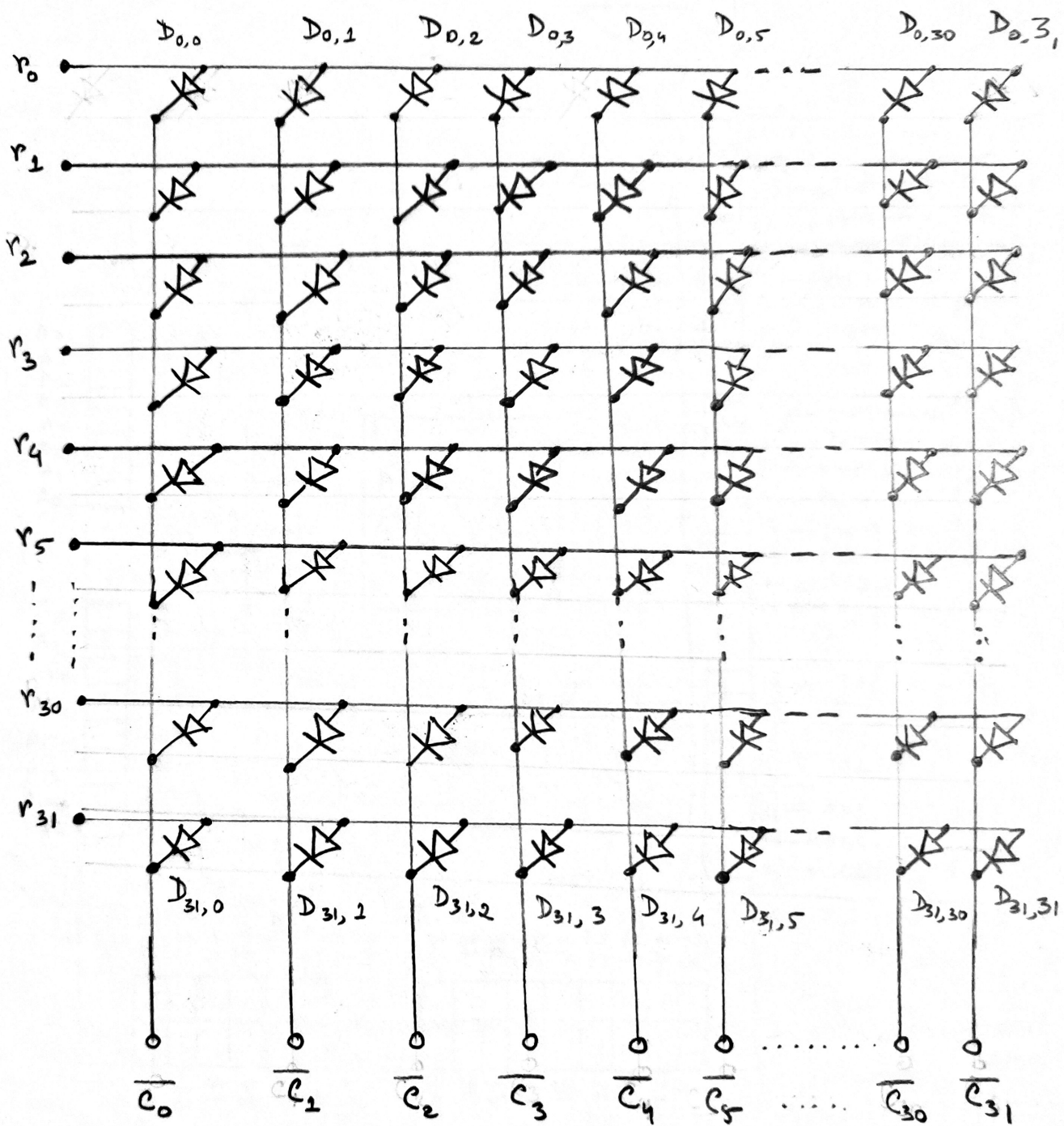


Fig-1: The LED matrix  
(32 rows. 32 column)

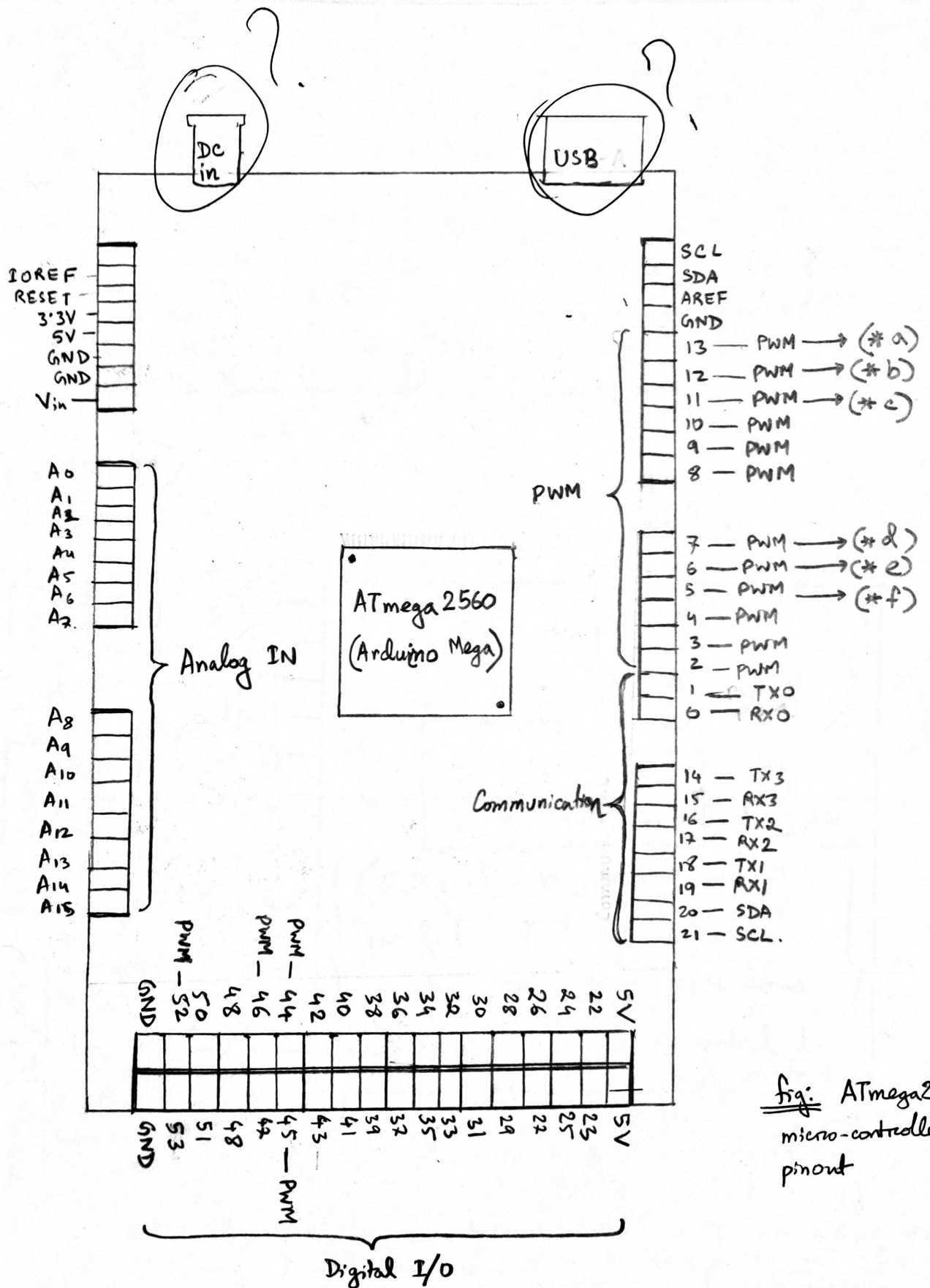
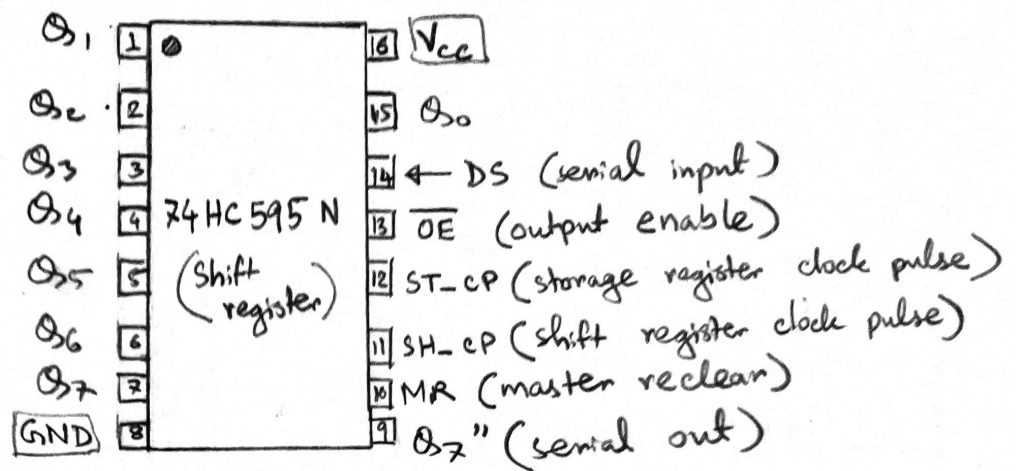


fig: ATmega2560  
micro-controller  
pinout

(\*a), (\*b), (\*c)  $\Rightarrow$  PWM pins 13, 12, and 11 are to be used for shift clock pulse, store clock pulse, and serial input pins of the first shift register in the shift register array [row shift register array]

(\*d), (\*e), (\*f)  $\Rightarrow$  Similar purpose as above, but for column shift register array.





MC (pin-PWM11)

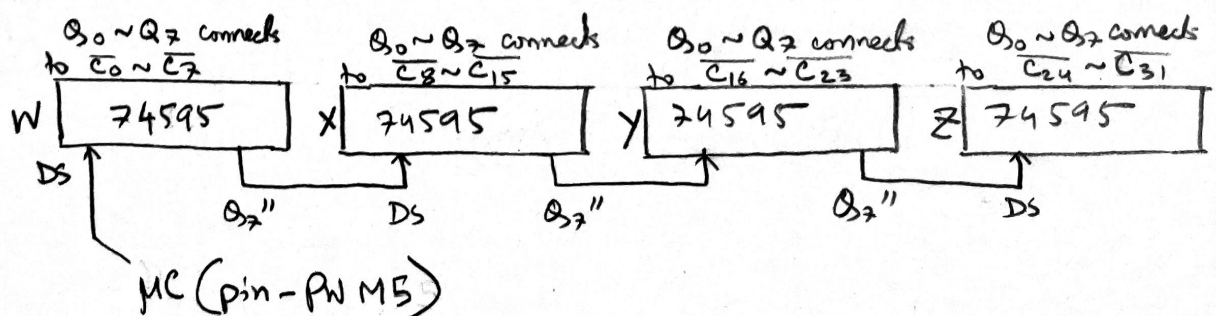
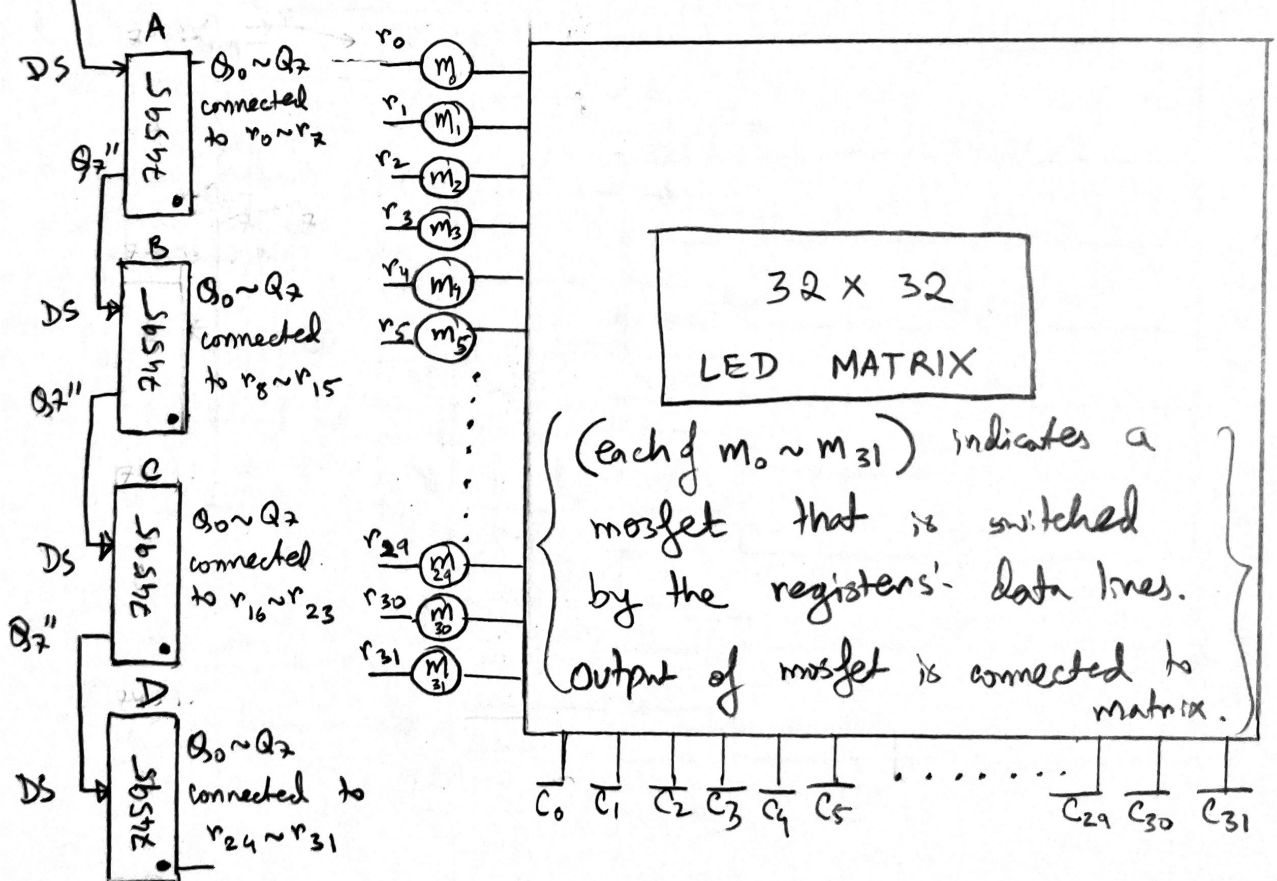


Fig: shift registers and LED matrix.

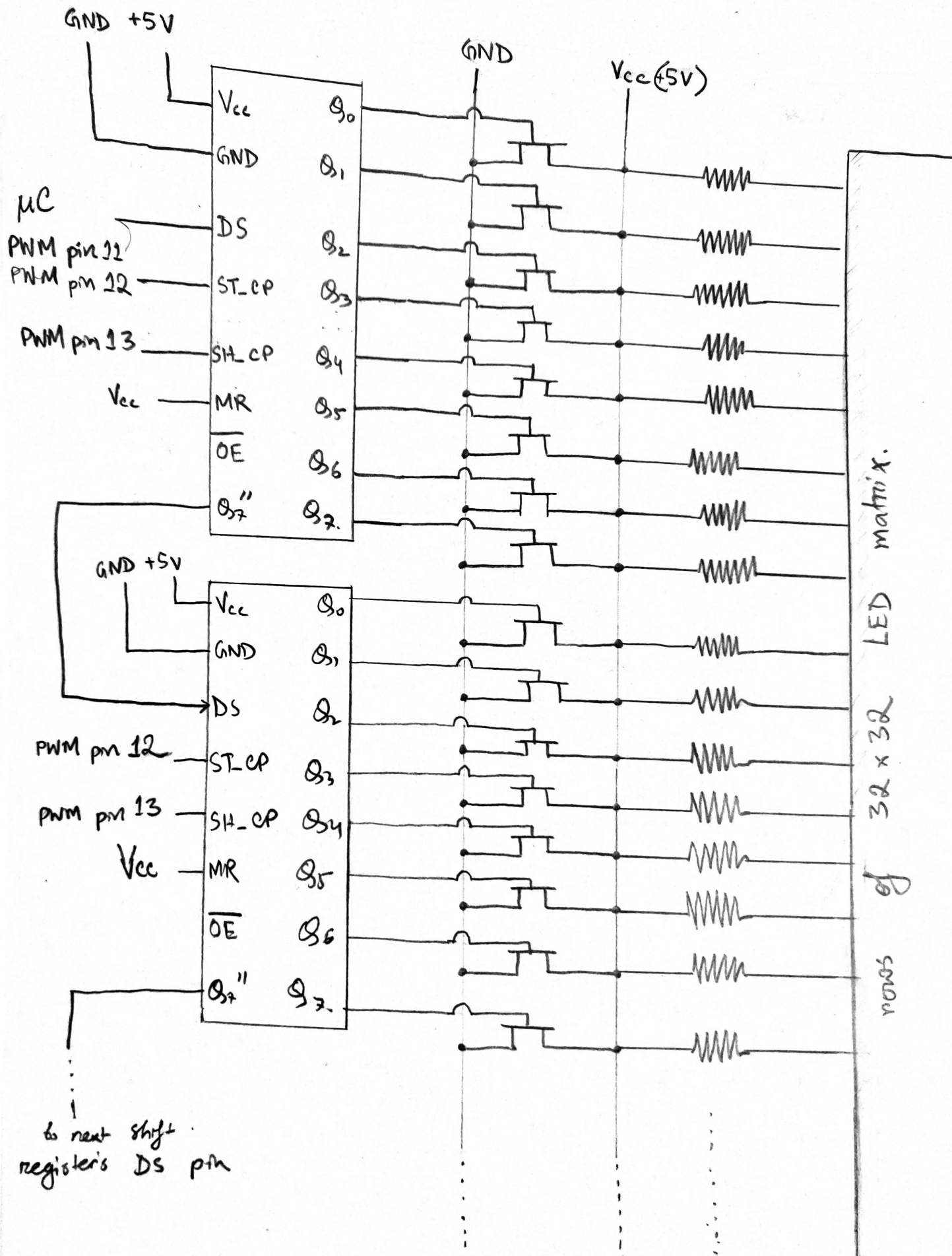


Fig: shift register and MOSFET connections.