

Diseño de sistemas digitales.

Practica 8: Mensaje con display de 7 segmentos (12-16 Caracteres).

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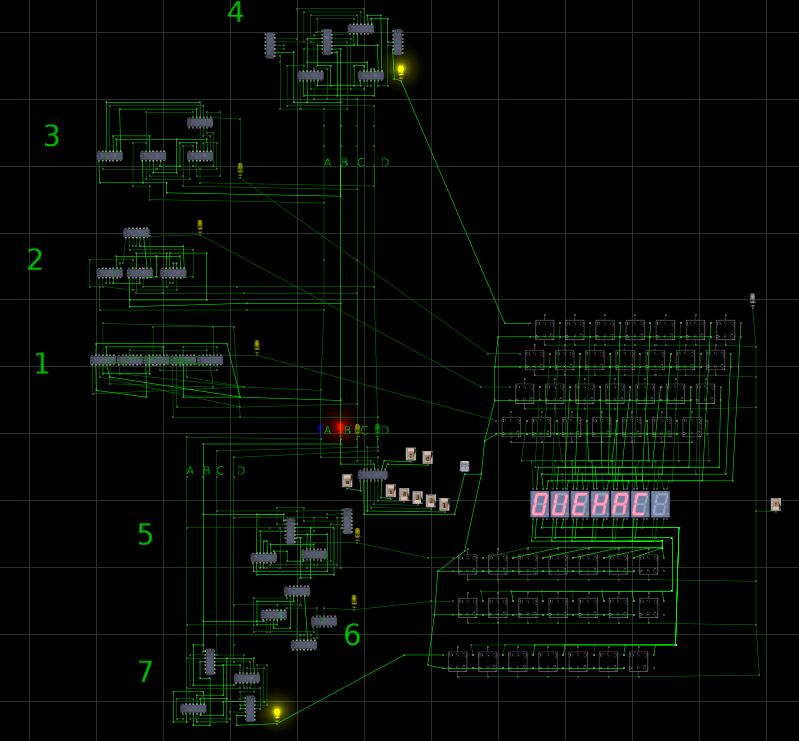
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Hermosillo, Sonora

Practica 8: Mensaje con display de 7 segmentos (12-16 Caracteres).

En esta práctica se elaboró un circuito que permite escribir un mensaje que se va desplazando hacia la izquierda.



Diseño de circuitos

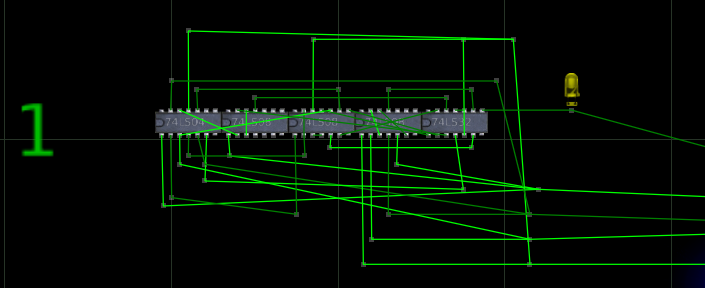
|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a | b | c | d | 1 | 2 | 3 | 4 | 5 | 6 | 7 |  |
| 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | H |
| 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | A |
| 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | C |
| 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | I |
| 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | S |
| 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | L |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | I |
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | F |
| 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | E |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | L |
| 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | O |
| 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | V |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | E |

1)

A’B’C’D’ v A’B’C’D v A’BC’D v AB’C’D v AB’CD’ v ABCD

A’C’(B’D’ v B’D v BD) v AB’(C’D v CD’) v ABCD

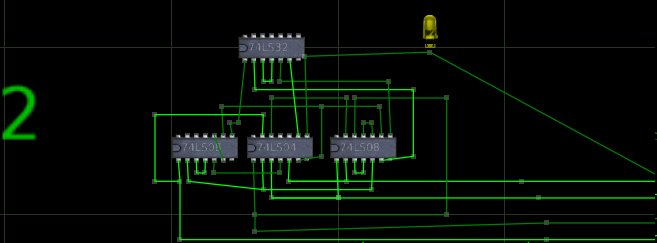
A’C’(B’ v BD) v AB’(C’D v CD’) v ABCD



2)

(A’B’CD v A’BC’D’ v A’BCD’ v AB’C’D’ v AB’CD)’

(B’CD v A’BD’ v AB’C’D’)’

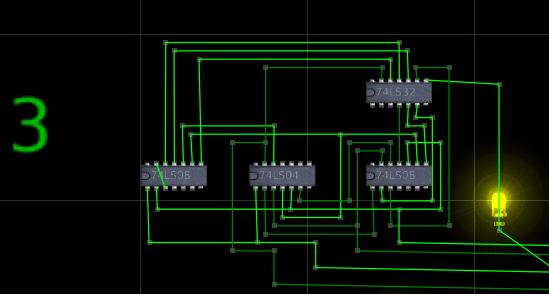


3)

A’B’C’D v A’B’CD’ v A’BC’D v AB’C’D v AB’CD’ v ABC’D v ABCD

B’C’D v B’CD’ v A’BC’D v ABD

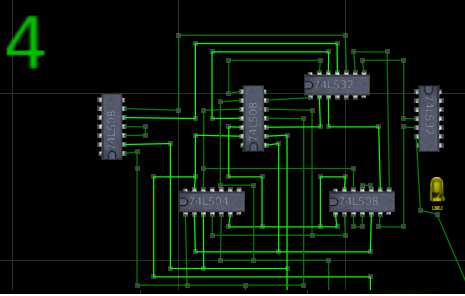
B’(C’D v CD’) v BD(A v A’C’)



4)

A’B’C’D’ v A’B’C’D v A’BC’D’ v AB’C’D’ v ABC’D v ABCD’

A’B’C’ v C’D’(A’B v AB’) v AB(C’D v CD’)



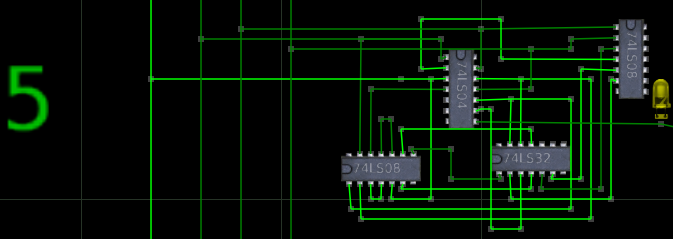
5)

(A’B’CD v A’BC’D’ v A’BC’D v A’BCD’ v AB’C’D’ v AB’CD)’

(B’CD v A’BC’D’ v A’BC’D v A’BCD’ v AB’C’D’)’

(A’B(C’D’ v C’D v CD’) v B’(CD v AC’D’))’

(A’B(C’ v D’) v B’(CD v AC’D’))’

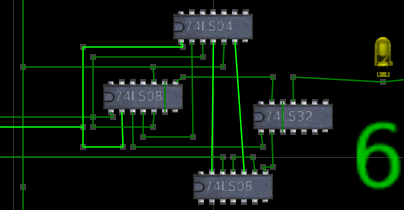


6)

A’B’CD’ v A’BC’D v A’BCD v AB’CD’ v ABC’D’ v ABC’D v ABCD’ v ABCD

B’CD’ v A’BD v ABC’ v ABC

B’CD’ v A’BD v AB



7)

A’B’C’D’ v A’B’C’D v A’BC’D’ v A’BC’D v AB’C’D’ v ABC’D v ABCD’

A’B’C’ v A’BC’ v AB(C’D v CD’) v AB’C’D’

A’C’ v AB(C’D v CD’) v AB’C’D’

