



Instituto Politecnico Nacional



ESCOM “Escuela Superior de Cómputo”

INGENIERÍA SISTEMAS COMPUTACIONALES

Fundamentos de diseño digital

Reporte de proyecto

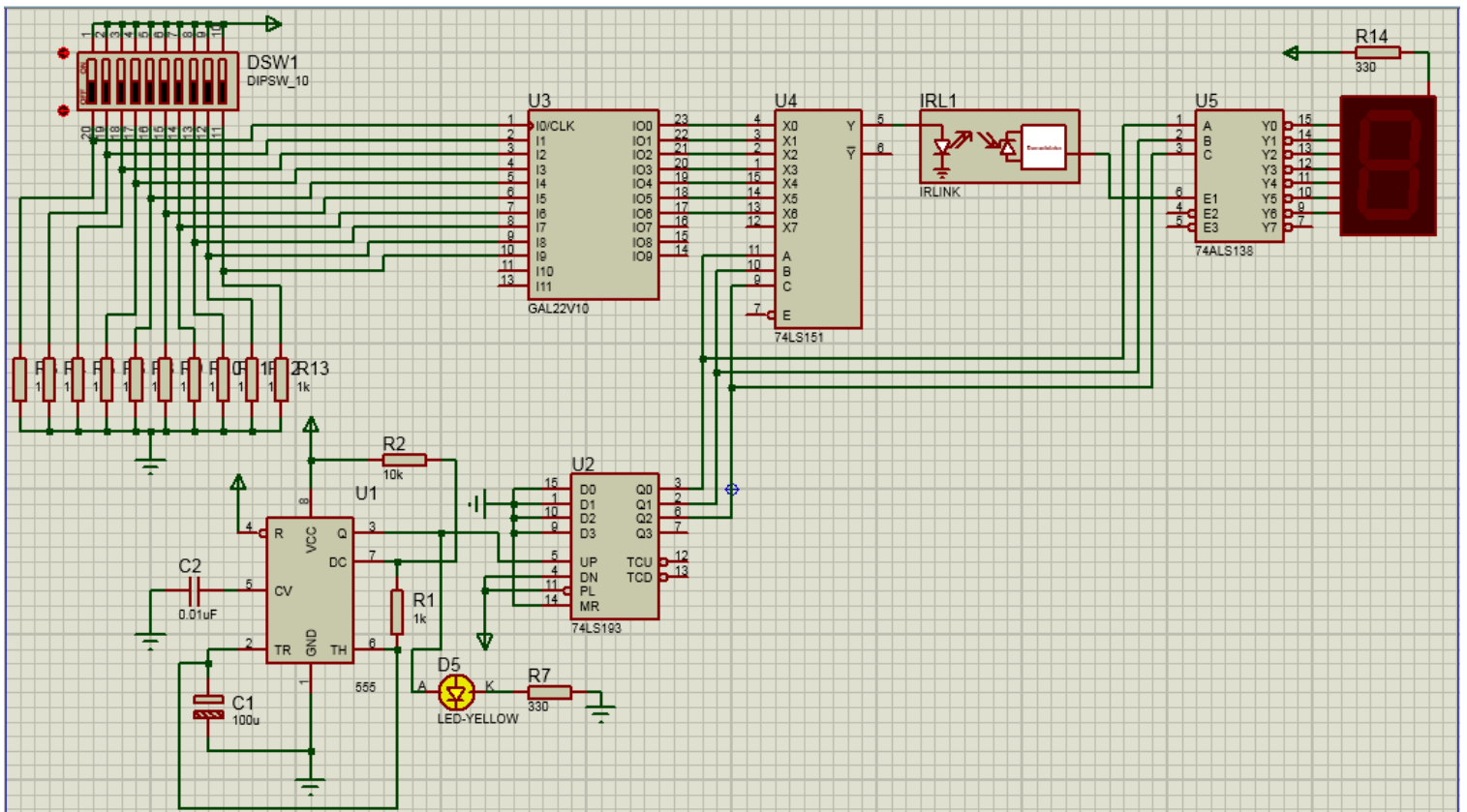
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Robles Soza Paula Guadalupe

GRUPO: 2CM2



```

LIBRARY IEEE;
USE IEEE.STD_LOGIC_1164.ALL;
ENTITY cod IS
    PORT(
        i: in std_logic_vector(9 downto 0);
        o: out std_logic_vector(0 to 7)
    );
ATTRIBUTE PIN_NUMBERS OF cod: ENTITY IS
    "i(0):1 i(1):2 i(2):3 i(3):4 i(4):5 i(5):6 i(6):7 i(7):8 i(8):9 i(9):10"
    & "o(0):23 o(1):22 o(2):21 o(3):20 o(4):19 o(5):18 o(6):17 o(7):16"
END cod;

ARCHITECTURE CIRCUITOS OF cod IS
BEGIN
    "11111100" when i(0) = '1' else
    "01100000" when i(1) = '1' else
    "11011010" when i(2) = '1' else
    "11110010" when i(3) = '1' else
    "01100110" when i(4) = '1' else
    "10110110" when i(5) = '1' else
    "10111110" when i(6) = '1' else
    "11100000" when i(7) = '1' else
    "11111110" when i(8) = '1' else
    "11110110" when i(9) = '1' else
    "00000000;"
END CIRCUITOS;

```

C22V10

i(0) =	1	24	* not used
i(1) =	2	23	= o(0)
i(2) =	3	22	= o(1)
i(3) =	4	21	= o(2)
i(4) =	5	20	= o(3)
i(5) =	6	19	= o(4)
i(6) =	7	18	= o(5)
i(7) =	8	17	= o(6)
i(8) =	9	16	= o(7)
i(9) =	10	15	* not used
not used	* 11	14	* not used
not used	* 12	13	* not used

Error Count = 0

warning Count = 0

