

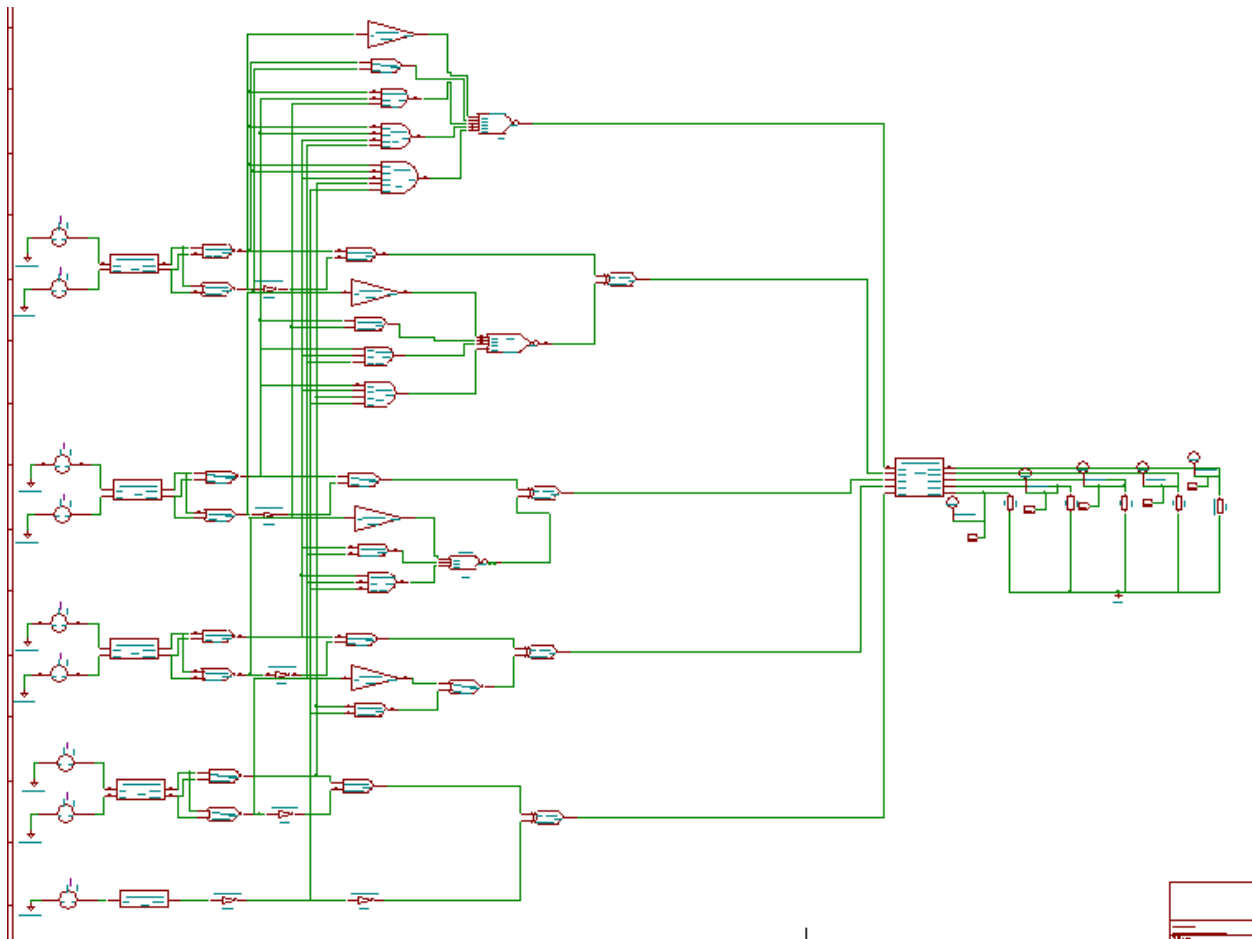
Name of the participant : CC Kalyani

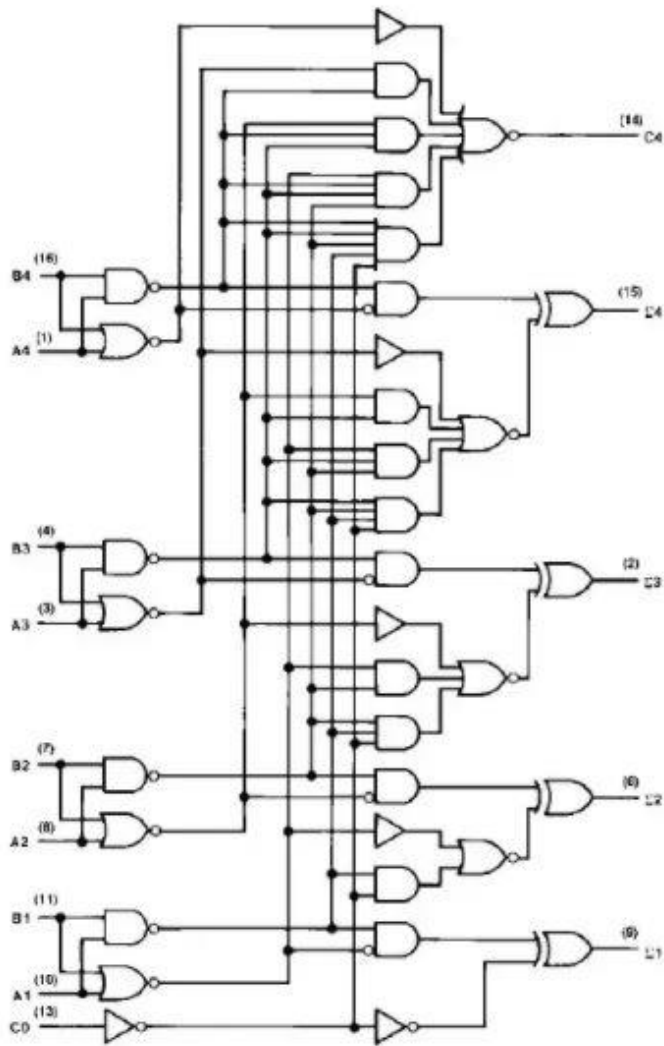
Title of the circuit : Design of IC 7483

Description :

IC 7483 is a 4 bit adder that adds 2 binary numbers and produces a 4 bit binary sum and an output carry. It is a parallel adder which has four interconnected adders along with a look ahead carry circuit. This 16 bit IC is used in high speed arithmetic operations, display driver circuits, counters, calculator circuits, matrix keyboards etc.

Circuit Diagram :





Results:

- Add parameters for DC source v2	Enter value(Volts/Amps):	<input type="text" value="5"/>
- Add parameters for DC source v1	Enter value(Volts/Amps):	<input type="text" value="5"/>
- Add parameters for DC source v4	Enter value(Volts/Amps):	<input type="text" value="5"/>
- Add parameters for DC source v3	Enter value(Volts/Amps):	<input type="text" value="0"/>
- Add parameters for DC source v6	Enter value(Volts/Amps):	<input type="text" value="0"/>

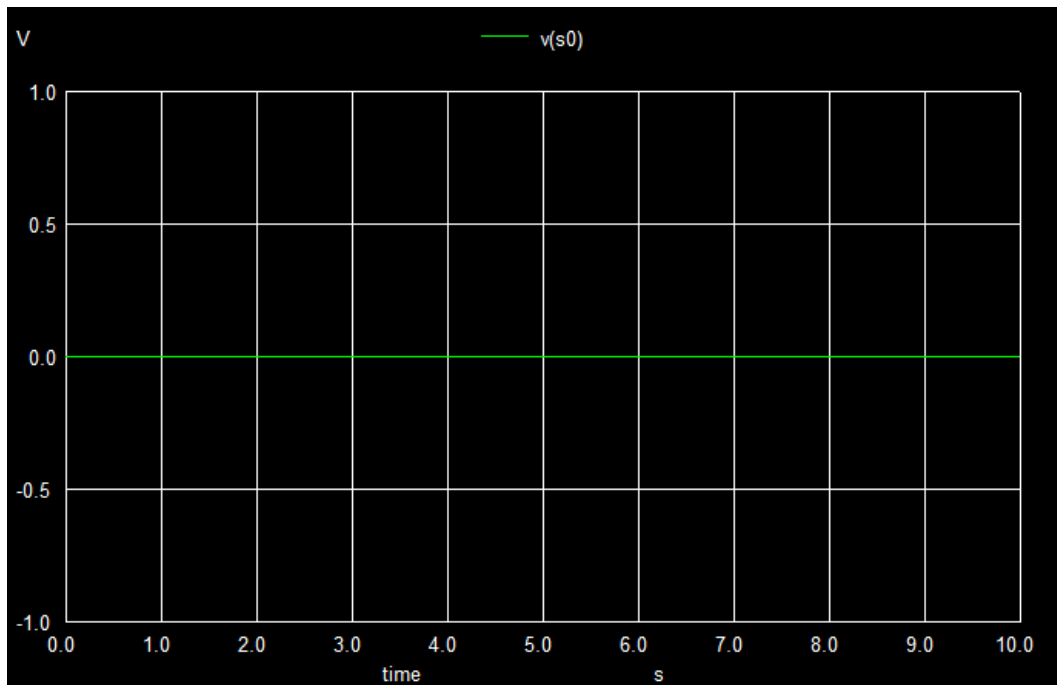
↗ Add parameters for DC source v5
Enter value(Volts/Amps):

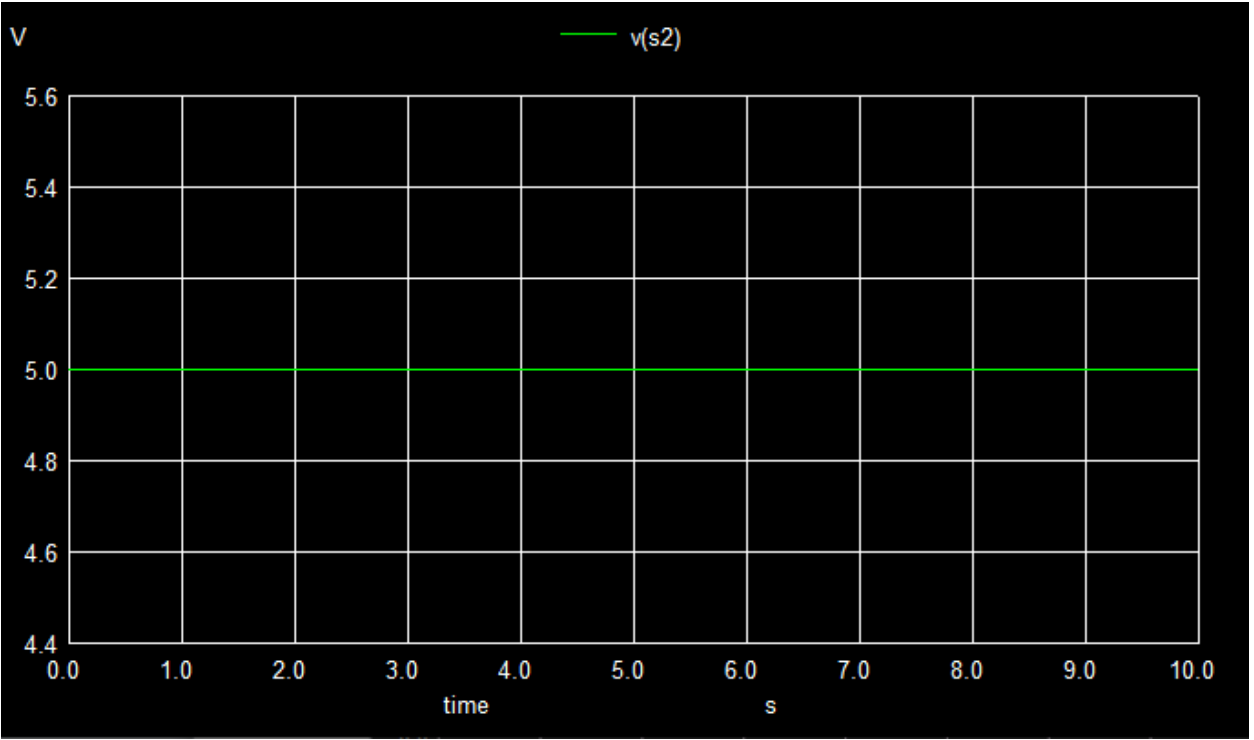
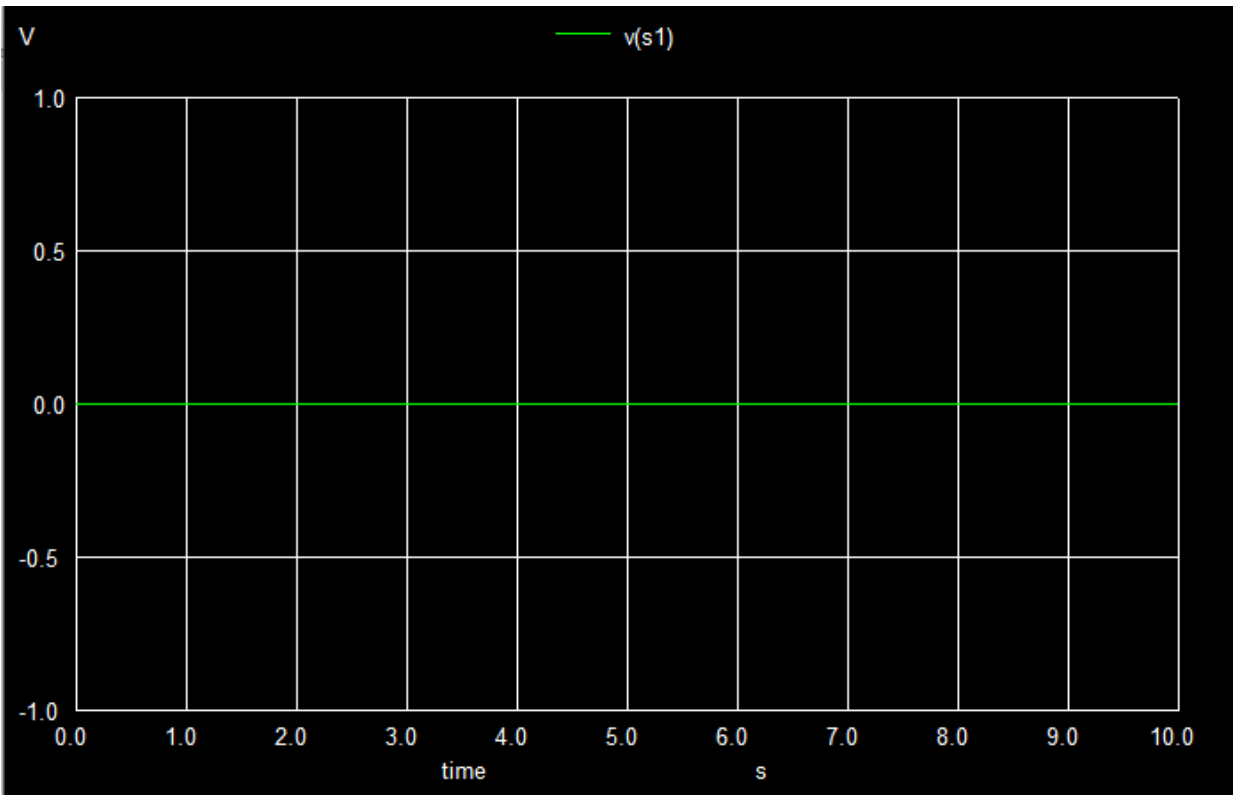
↗ Add parameters for DC source v8
Enter value(Volts/Amps):

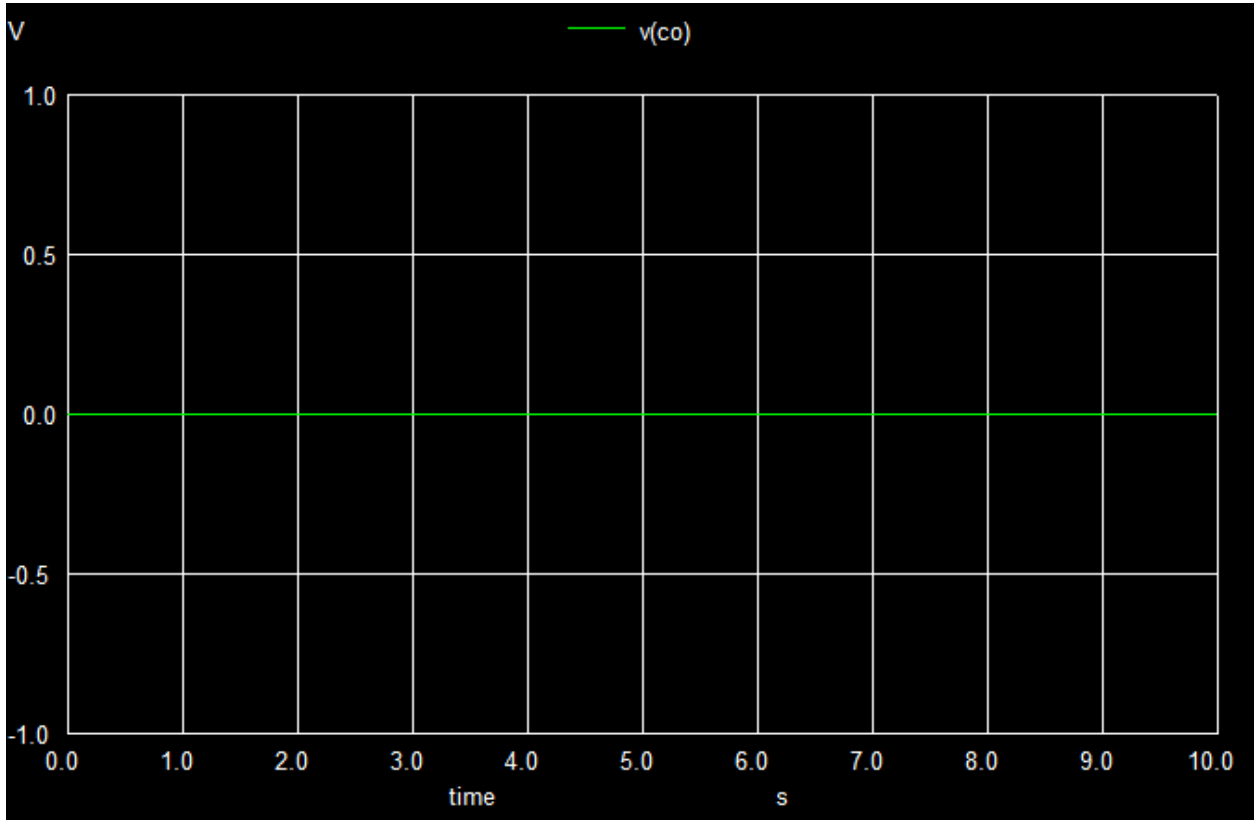
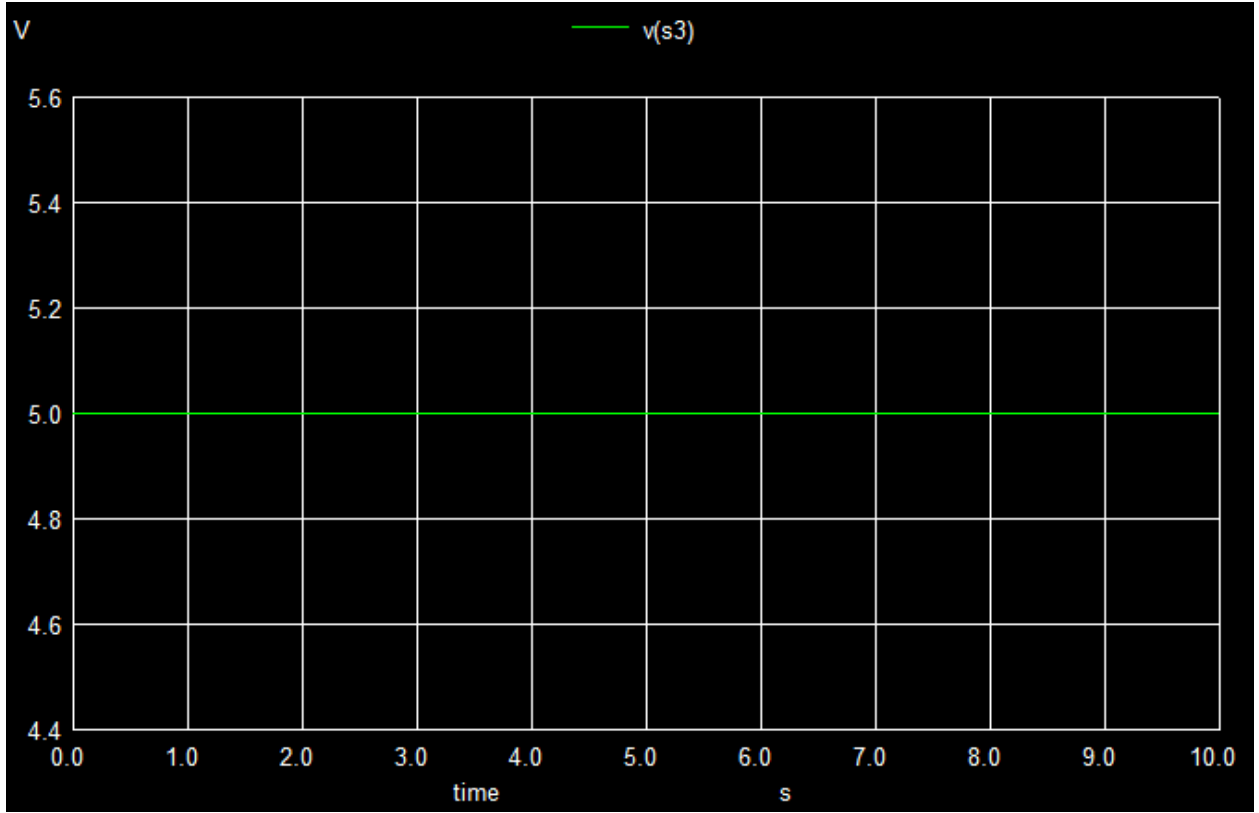
↗ Add parameters for DC source v7
Enter value(Volts/Amps):

↗ Add parameters for DC source v0
Enter value(Volts/Amps):

$V_0 = c_0 = 0;$ $v_1 v_3 v_5 v_7 = A_0 A_1 A_2 A_3 = 1001;$ $v_2 v_4 v_6 v_8 = B_0 B_1 B_2 B_3 = 0011$







References:

1. <https://datasheetspdf.com/pdf/248191/FairchildSemiconductor/74283/1>