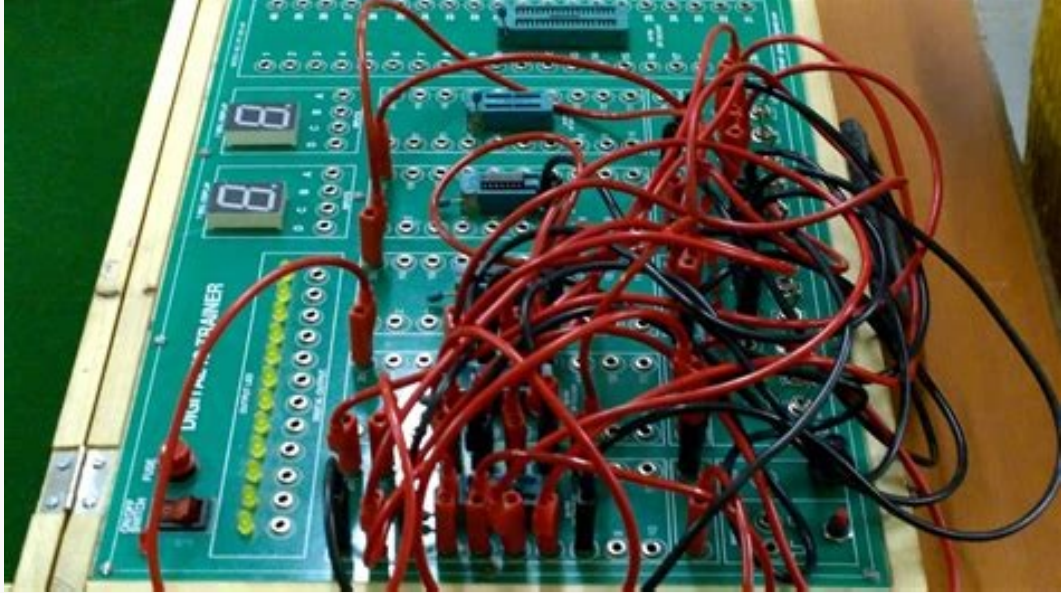
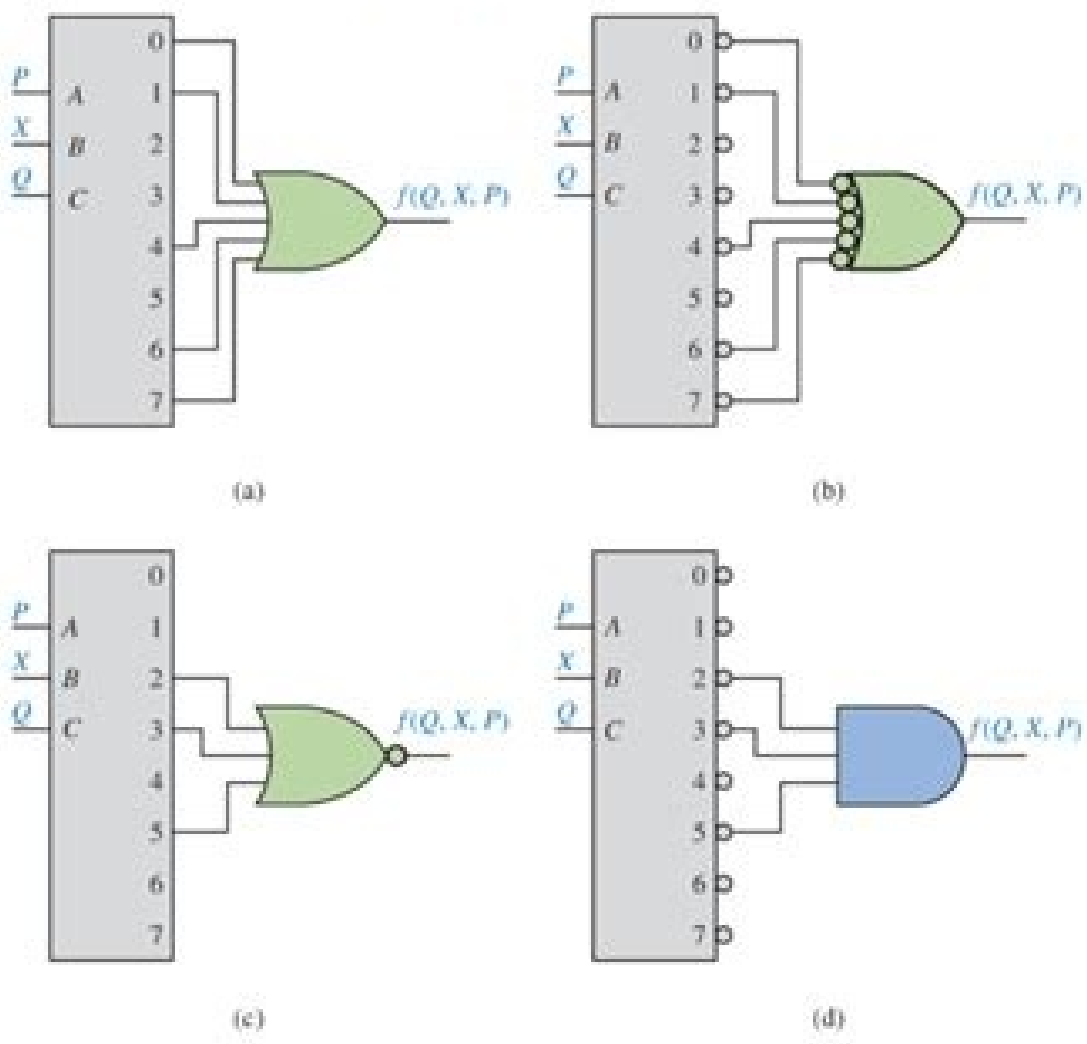


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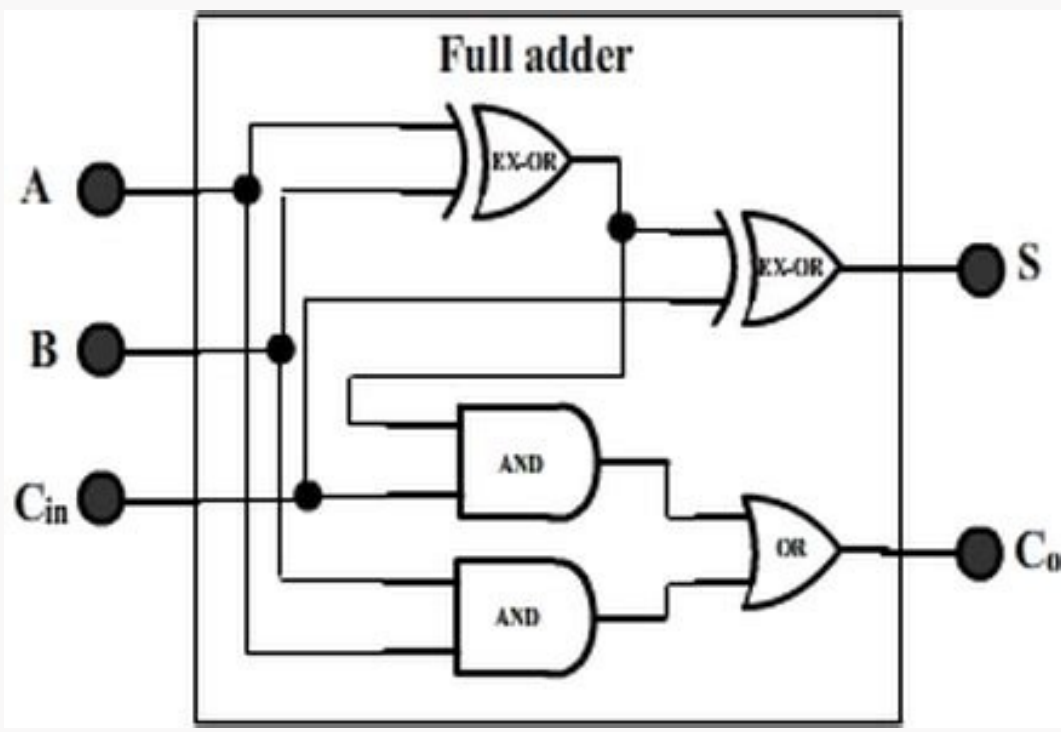
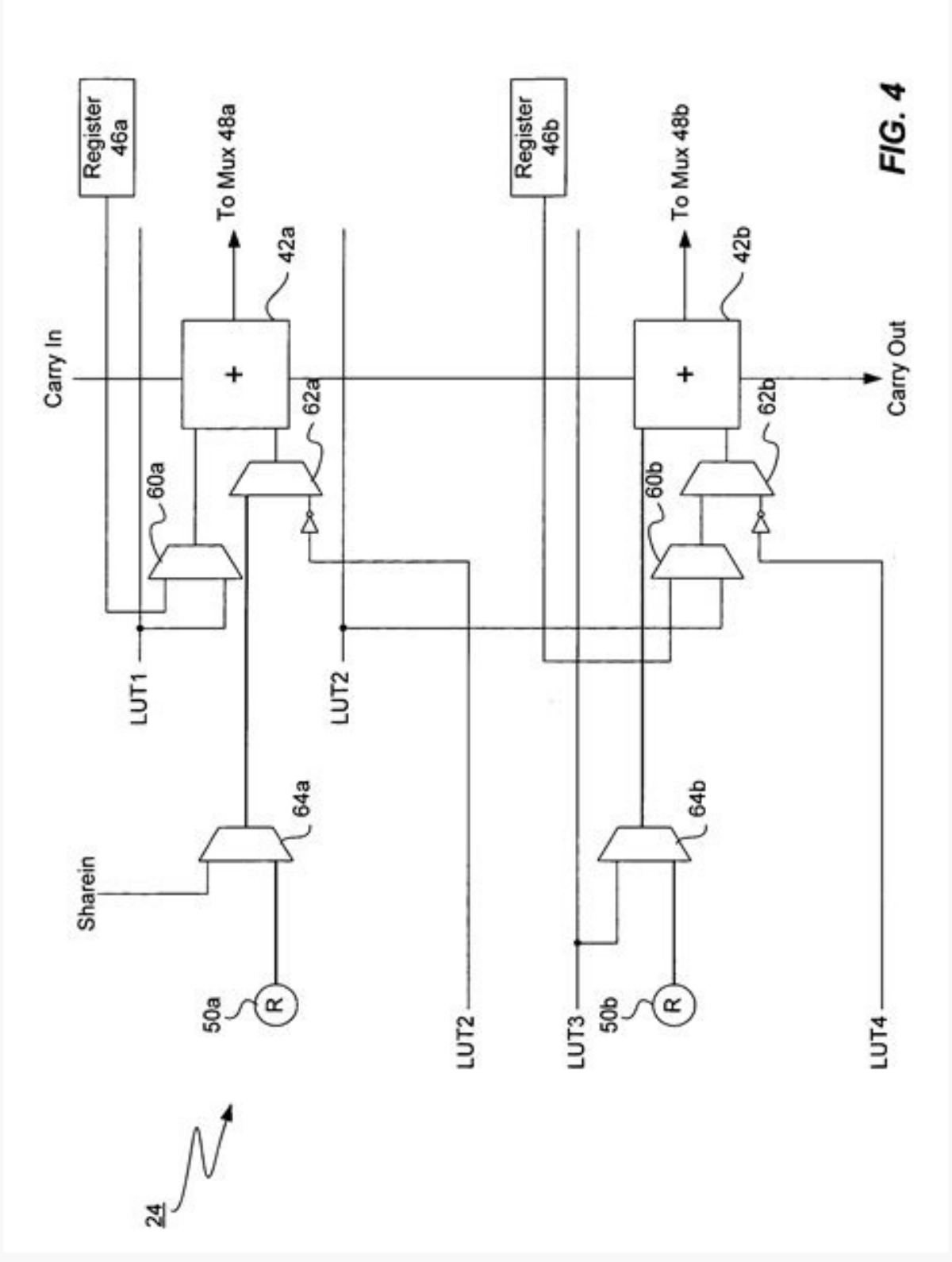
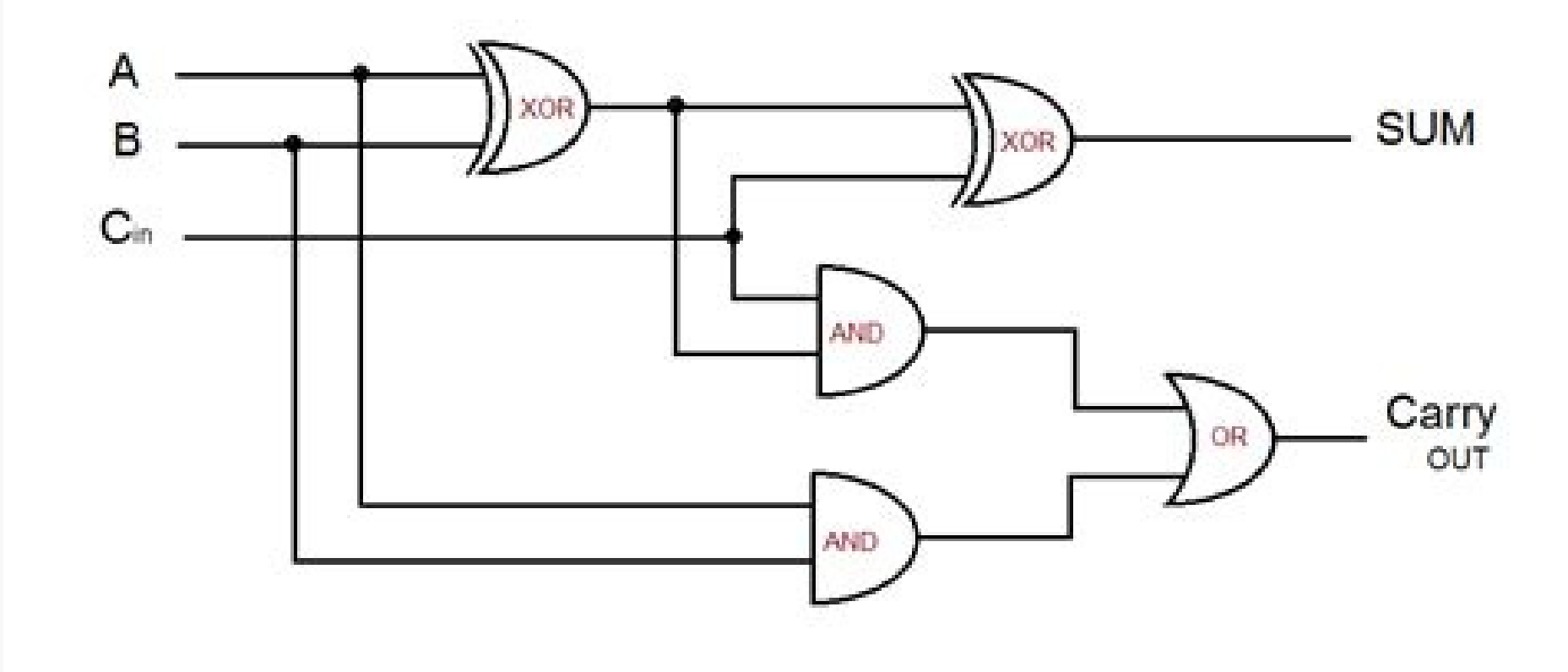


**Figure 3.33**  
Using decoders to implement active-high logic functions. (a) Active-high decoder with OR gate. (b) Active-low decoder with NAND gate. (c) Active-high decoder with NOR gate. (d) Active-low decoder with AND gate



In general, if  $f(A, B, \dots, Z) = m_i + m_j + \dots + m_k$ , then  $f$  can be realized by an active-high decoder and a  $k$ -input OR gate.

From DeMorgan's theorem



Knowledge Know all about FULL circuit diagram add what is an adder? In the electron and in the world of digital wool design, Adder, in fact, is a digital circuit used to perform the addition to bamon. The additives are used to perform the task of unit of aritmanal © ticos (alu) in processors when it comes to computers. In processors, they are used to calculate addresses, increment or decrement operations, table and other operations. Source: www.elprocus.com they are also used for representations of no. There are two types of additives. What is the complete adding circuit? Before jumping to the full adder, it is necessary to know what is the medium adder because it is the base of the full adder. HALF ADDER also a circuit used in digital and electrical wool design operations. Also used to execute the addition in bamon. In the middle circuit, we have two bamonical dagitoes of bit of Bit. These inputs are also called Augend and Addend bits. These added inputs added, and the sum of the transportation is produced. The adder of two halves can be mixed to form a complete adder circuit. This is the simple definition of the medium adder. Now, let's dive into the full adder. Source: www.elprocus.com A complete adder is used when you have one or more than the bamon number of a bit. It is also a circuit used in Digital Electronics and Design and is used to execute the addition in the two bamners. The full adder entrances are three, and they are A, B, the two standard inputs, and Carry C, which makes it different from the middle circuit. In the full addition, the first transportation is always zero when the first operation of the addition starts. When the sum is generated from A and B, the of the last less significant bit is added to the next to add operating, and this task is continued to all the bam of the are added. The complete adder also adds 8, 16, 32, etc bit binary numbers, so is the component in the adders cascade. The complete adder usually produces a binary number of two bits as the output. If you make the complete adder summary, you can be represented in the equations.  $S = A \oplus B \oplus C_{in}$ .  $C_{out} = (A \cdot B) + (C_{in} \cdot (A \oplus B))$ . Source: www.elprocus. with Full Additive Circuit Diagram, Truth and Equation Table The study theory is not enough. We also had to see practical implementations so that our concepts become more evident. This section will practically implement the complete diagram of the adder circuit, truth table and equation. And you will know the process of making a complete adder in three ways. The complete adder is a bit complex to implement compared to the adder medium because the complete adder has three inputs A, B and C. Typically, the output is C, and Sum S. Let's understand the full adder of your truth table. Lot Source Truth Table: www.elprocus.com So here we have two do two large sections for incoming operations and outgoing results. In the input section, we have three columns for A, B and Cin. Now in A and B, place the 0s and 1s in the traditional form. First, take the 0s and 1s of A and B and Blow them together. When the number of 1s in input is strange in the XOR operation, the 1 is produced in the result, plus 0. Now, take the XORed results A and B and again XOR with Cin. Remember, the first Cin is always 0. In the exit section, Cout and S are generated by seeing the three entries. If the high(1) are strange, then the high(1) is produced as 0. Now, let's see the full adder circuit diagram. Circuit diagram of the adder's complete source: www.elprocus. with This is the general representation of the Full Adder circuit diagram. Here, we use two half-adder diagrams to make the complete adder diagram. Both .deROX .deROX ©Ä m©Ämat C o .odatluser ues ed e, deROX oriempir ofÄs, B e A Entries A and B, then, and then the Xored A and B and Cin are also successful. Both AND results are taught together to produce the final cout. Therefore, by the diagram above, we can easily understand that the complete sounder is the combinational circuit. Now, let's see the equation or expression of Adder's total circuit. Adder's complete equation or expression The equation or expression of the whole sumer is, and they are as follows.  $S = a \oplus b \oplus C_{in}$ .  $C_{out} = (a \cdot b) + (c_{in} \cdot (a \oplus b))$ . From the equation above the sum s, it is easily visible that first A and B are xored together, then NIN. • is the symbol of the XOR operation. In the expression of cout, we can see that the first A and B are and then the CIN is and the Xored A and B. So these results are taught together to produce the cout equation. Thus, from the above work, we can say that, in the complete sumer, three logical gates are used and are. XOR GATE, the most important and the gate or gate use the creation of EDRAWMAX for the circuit diagram The useful electronic machines we are seeing and using today are due to the mercy of the Adder. As seen above, the complete sumer is used to perform the operations of the arithmetic logical drive, a necessary part of the CPU operations of the computer. Without this, we cannot do any complex work that computers are doing today. The complete adors are used to program the chips, and these chips are used in modern vehicles, aircraft and other automatic machines. So we can't ignore the sound of our life. For this complex circuit design using add-ons, experts recommend the use of the best Internet software, Edrawmax. Edrawmax is an easy-to-use diagram software that you can use to perform your task efficiently. Software developers say the software is for everyone, regardless of their professional. The software contains all the essential models and libraries that you To increase your production. You can also download your result in different formats and shall share them on any social mommy site. The software is free for your main work, but you need to buy the software if you want more advanced resources. Articles listed in this article, we focus on the design and in full application. The design is given of the Truth Table to simplify to the otic circuit. The application receives the implementation of Nand Gate, total input, ç ä € "138 to reach the total integration, Ä € Ä ~ 8" 153 Ä € to obtain A 4 -bit parallel adder, full integration/complete subordinate/complete substitute. Finally, project a total addition application directly in the voting system. Fig. 6.Fig. 7.Fig. 8.Fig. J.: Research on the PLC -based wool weighing system. In: International Conference Energy and Mechanical Engineering (2015) Google Scholar Zhao, J.: TREAT APPLICATIONS AGAINST APPLICATIONS, PROGRESS IN MECHANICAL AND TECHNOLOGY OF INFORMATION (2013) Google Scholar ç Floyd, T.L. The circuit allows you to switch a complex subset of your document in a reusable component, similar to Flip-Flop.Example: Create a personalized adherer order to better demonstrate how this works, the following section lead to create a personalized integrated circuit for half adder. A live demonstration of a half of the only appears below: start recreating the above diagram in the igotic. The components of the alternate switch becomes input connectors into its custom integrated circuit, while the components of the wide become output connectors. Select the alternation key component. In the properties window, A At the export name entrance. The export name value will be displayed on your custom integrated circuit next to the input or output connector. If the text is too long, it can be automatically reduced and attached to the lower alternation exchange component and type B into the export name entry box of the Properties window. Select the component of the top lamp and type s (for "Sum") into the input box Export name of the Properties window. Select the bottom lamp component and type C (for "Carry") into the Inbox Export name of the Properties window. Choose everything from the Edit menu, or drag a selection rectangle around the full adder circuit if your document contains more than half adder. From the Edit menu, choose Create an integrated circuit. now you should see the Create integrated circuit window. An error message will be displayed when your selection does not contain at least one alternating key and at least one lamp. Similarly, an error will be displayed when you do not set the export name in one or more of the alternating switches or lamps. In the full name inbox, type a full and detailed name for your custom integrated circuit. This text will appear on the label displayed on the component list to the left of the main logical window. For this example, we should insert half the adder. In the symbol label entry box, you can insert some short label text to be displayed in the center of the circuit symbol. This field is optional, but recommended for clarity. The same as above, we'll enter the middle adder. As you can see in the screenshot above, you can optionally include line breaks in the label text. We can also consider an abbreviation, such as HA, to occupy less space in the editor. Finally, you can change the positions of one of the input and output connectors. By pattern, all inputs appear left and all outputs appear right, similar to the wide ports. However, you can drag drag Connector for the upper, right, lower or left samble in any order. For the adding medium, we will leave all the left inputs and the right leaves, but feel like drag them to different positions if you prefer. When you concluded everything, click on the Create IC bot. The new custom integrated circuit will appear in the component list on the left side of the main wool window. You will find a new category at the bottom of the list called Custom. To use the new middle circuit, just drag it to the editor and connect to the inputs and outputs, as well as any other component. Detail a custom integrated circuit find the custom integrated circuit in the left component list Logically's main window. Must appear in the personalized category. Click the right of the mouse in the äcone for your custom circuit and choose to delete integrated circuit. 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