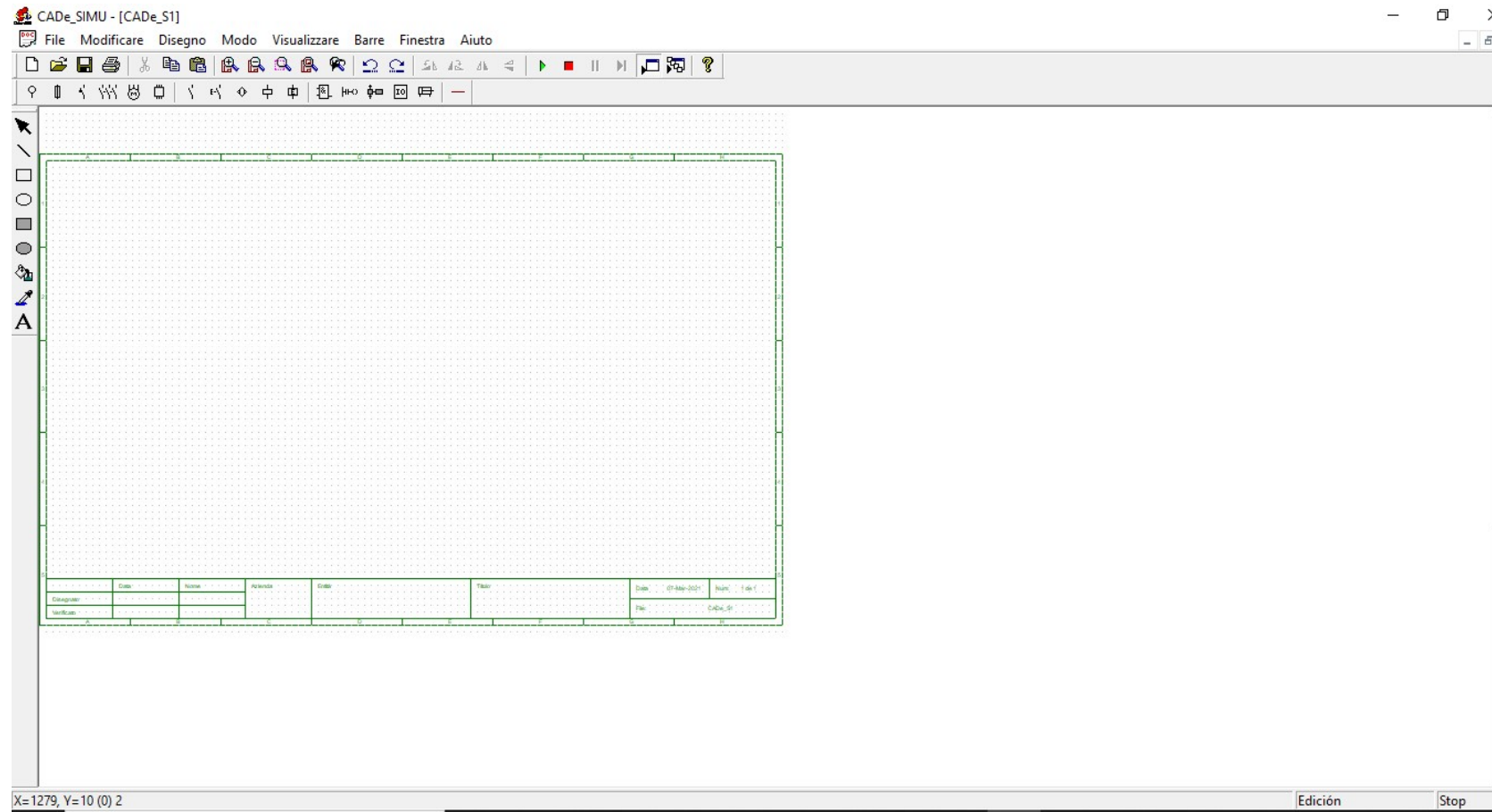


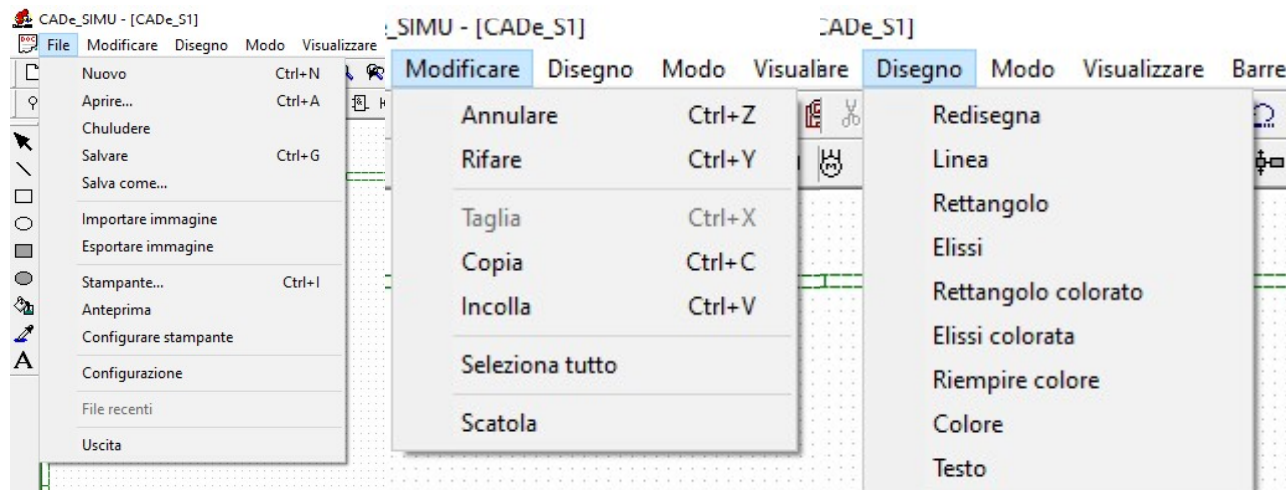
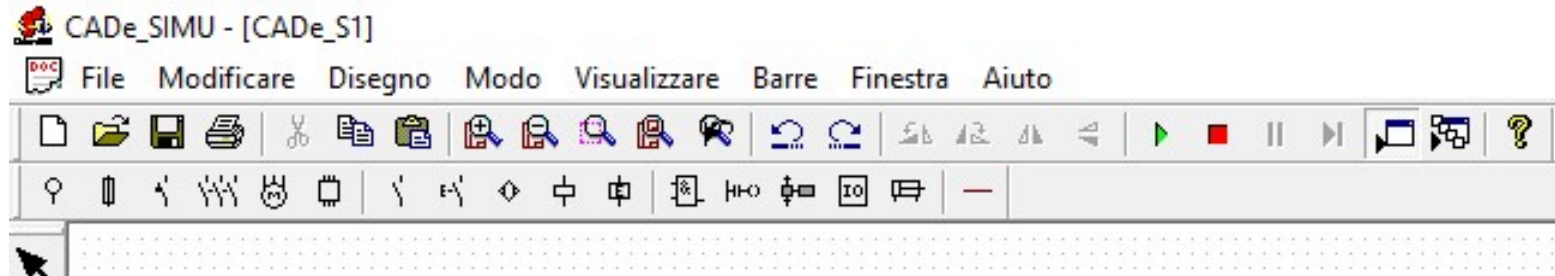
CADe_SIMU

Simulatore circuiti, ladder e PLC

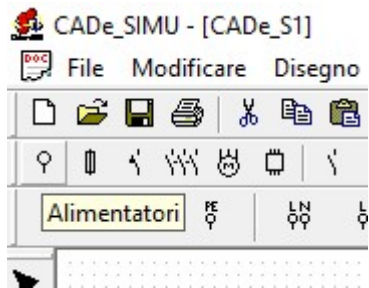
Schermata principale



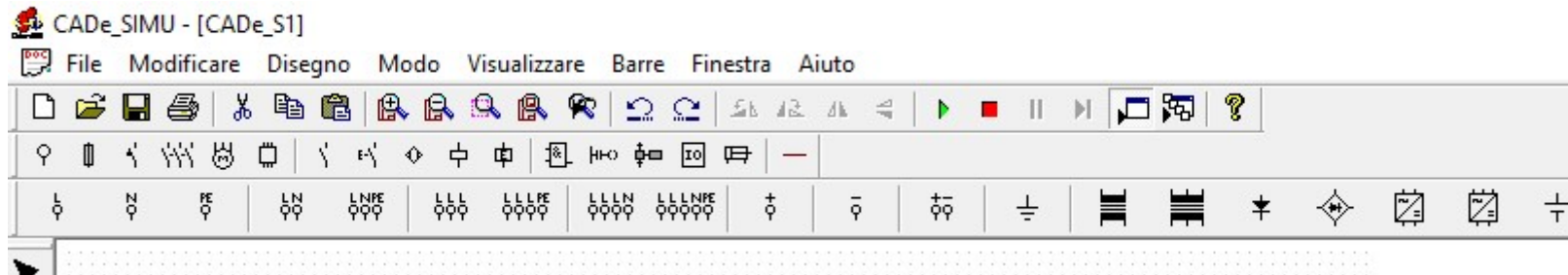
menù



Strumenti



Passando con il mouse sui vari simboli viene suggerita la funzione e, cliccandoci sopra con il mouse, compare un altro menù i simboli relativi alle funzioni specifiche



CADe_SIMU - [CADe_S1]

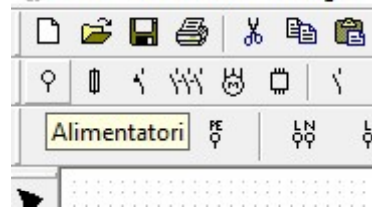
File Modificare Disegno Modo Visualizzare Barre Finestra Aiuto



The left sidebar shows a vertical list of drawing tools: rectangle, circle, ellipse, square, and filled circle. A context menu is open over the workspace, listing options: Inc, Sel, Sci, Rettangolo colorato, Elissi colorata, Riempire colore, Colore, Testo, and Librerie. Below the sidebar, a printer menu is visible with options: Stampante... (Ctrl+I), Anteprima, Configurare stampante, Configurazione, File recenti, and Uscita.

CADe_SIMU - [CADe_S1]

File Modificare Disegno



Caratteristiche delle variabili

The screenshot shows the CADe_SIMU software interface. The main window displays a circuit diagram on a grid. A component, a normally open contact, is highlighted with a red dashed box. An 'Editare' (Edit) dialog box is open over the component. The dialog box has a title bar 'Editare' and a close button. Below the title bar, the text 'Contacto NA' is displayed. There are two sections: 'Nome:' with a text input field containing '-U' and a checked 'Visualizzare' checkbox; and 'Funzione:' with an unchecked checkbox. Below these are nine 'Collegamento' (Connection) fields, all empty. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The background shows a circuit diagram with a contact symbol and a table at the bottom with columns for 'Código', 'Nombre', 'Parámetro', 'Color', and 'Flecha'. The Windows taskbar is visible at the bottom with the search bar and system tray.

Ogni variabile deve avere un nome
Per attribuire un nome basta cliccare
Sul simboletto

Variabili esimulazioni

The screenshot displays the CADe_SIMU software interface. The main window shows a ladder logic diagram with a normally open contact and a coil. A dialog box titled 'Indicador color' is open, allowing configuration for a 'Botón pulsador' (push button). The dialog includes a 'Visualizare' section with 'Nome' and 'Funcione' fields, and a 'Colore' section with radio buttons for Verde (selected), Rosso, Giallo, blu, and Grigio. Below the dialog is a table with columns for 'Nome', 'Simbolo', 'Color', and 'Filar'. The status bar at the bottom shows 'Edición' and 'Stop'.

Per poter effettuare delle simulazioni è necessario che il nome dei simboli dello schema Ladder e quelli dei relativi simboli della simulazione siano gli stessi

Simulazione

The screenshot displays the CADe_SIMU software interface. The main window shows a circuit diagram on a grid. The toolbar at the top contains various icons for file operations, editing, and simulation. A red arrow points to the simulation control icons: a green play button (start), a red square (stop), and a green double play button (resume). Below the diagram is a table with columns for 'Data', 'Nome', 'Attivita', 'Data', and 'Titolo'. The Windows taskbar at the bottom shows the system tray with the date 07/03/2021 and time 10:23.

Data	Nome	Attivita	Data	Titolo

Start e stop della simulazione

simulazione

The screenshot displays a software window titled "CADe_SIMU - [AND]". The interface includes a menu bar with "File", "Modificare", "Disegno", "Modo", "Visualizzare", "Barre", "Finestra", and "Aiuto". Below the menu is a toolbar with various icons for file operations, editing, and simulation. The main workspace is a grid with a circuit diagram consisting of a horizontal line with three components labeled "E1.0", "E1.1", and "O1.0". To the left of the grid, there are two green circular components labeled "E1.0" and "E1.1". At the bottom of the grid, there is a table with the following data:

Disegnato	Data	Nome	Attivita	Data	Titolo	Data	08-mar-2021	Inten	1 da 1
Modificato						File:	AND		

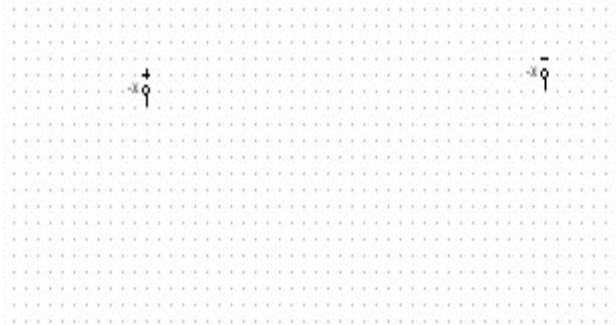
The status bar at the bottom shows "X=70, Y=300 (17) 2" on the left, and "Simulazione" and "Run" on the right. The Windows taskbar at the very bottom shows the search bar with "Scrivi qui per eseguire la ricerca", several application icons, and the system clock displaying "10:30 07/03/2021".

simulazione

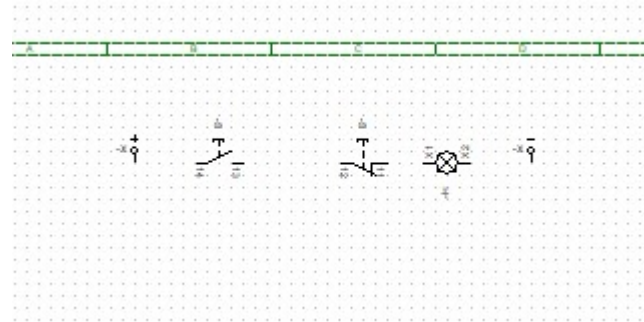
The screenshot displays the CADe_SIMU - [AND] software interface. The main workspace shows two circuit diagrams on a grid. The top diagram is a series circuit with a voltage source (V1), a resistor (R1), and a diode (D1). The bottom diagram is a parallel circuit with a voltage source (V1), two resistors (R1 and R2), and a diode (D1). The software window includes a menu bar (File, Modificare, Disegno, Modo, Visualizzare, Barre, Finestra, Aiuto), a toolbar with various simulation and editing tools, and a status bar at the bottom. The status bar shows the coordinates X=1339, Y=430 (40) 2, the simulation status (Simulazione), and the Run button. The Windows taskbar at the bottom shows the system tray with the date 07/03/2021 and time 10:56.

Disegnato	Data	Nome	Particella	Data	Titolo	Data	08-mar-2021	Inten	1 da 1
Modificato						File:	AND		

Costruzione passo passo di un circuito



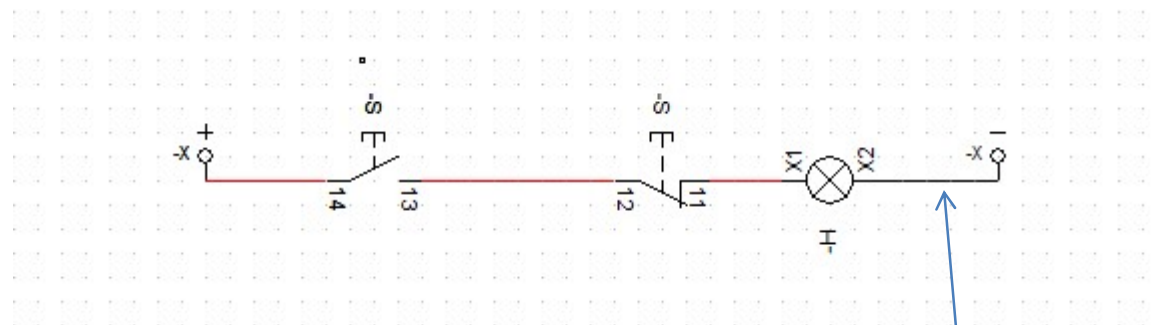
Si inserisce l'alimentazione



Inserimento di elementi circuitali: NO, NC, attuatore



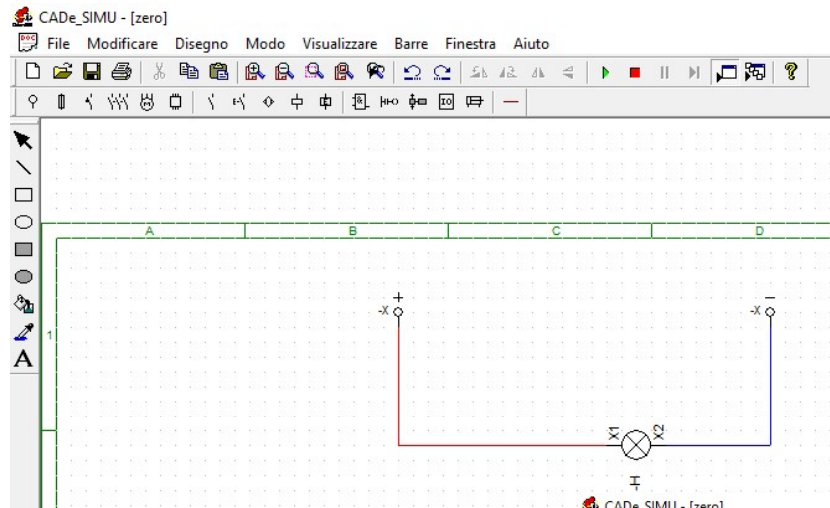
Inserimento cavo positivo



Circuito finale

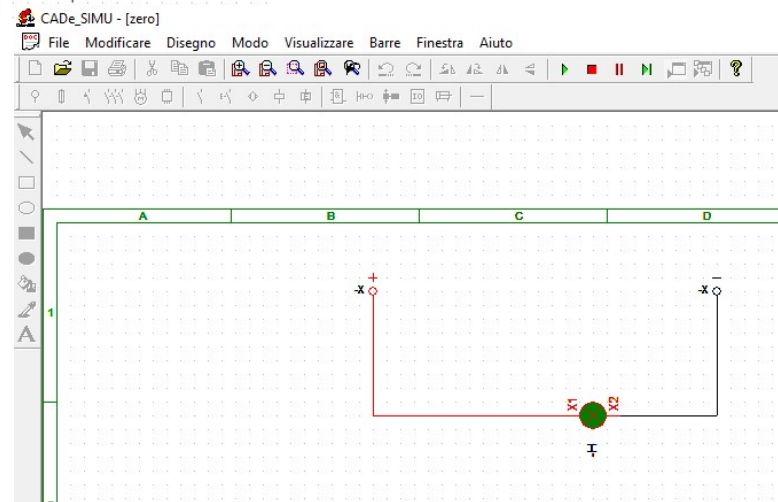
Cavo negativo

I simulazione

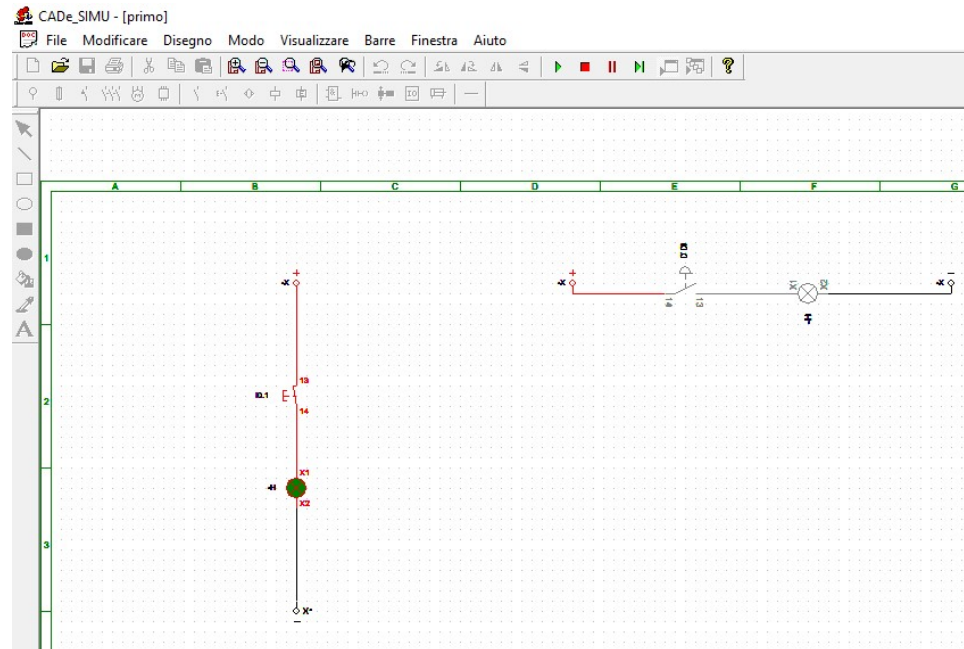
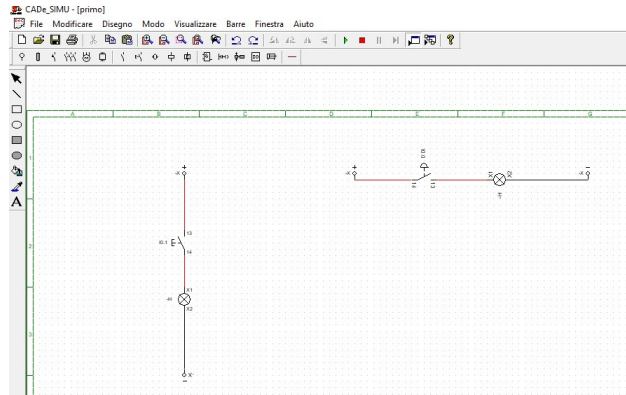


Accensione di una lampada

simulazione

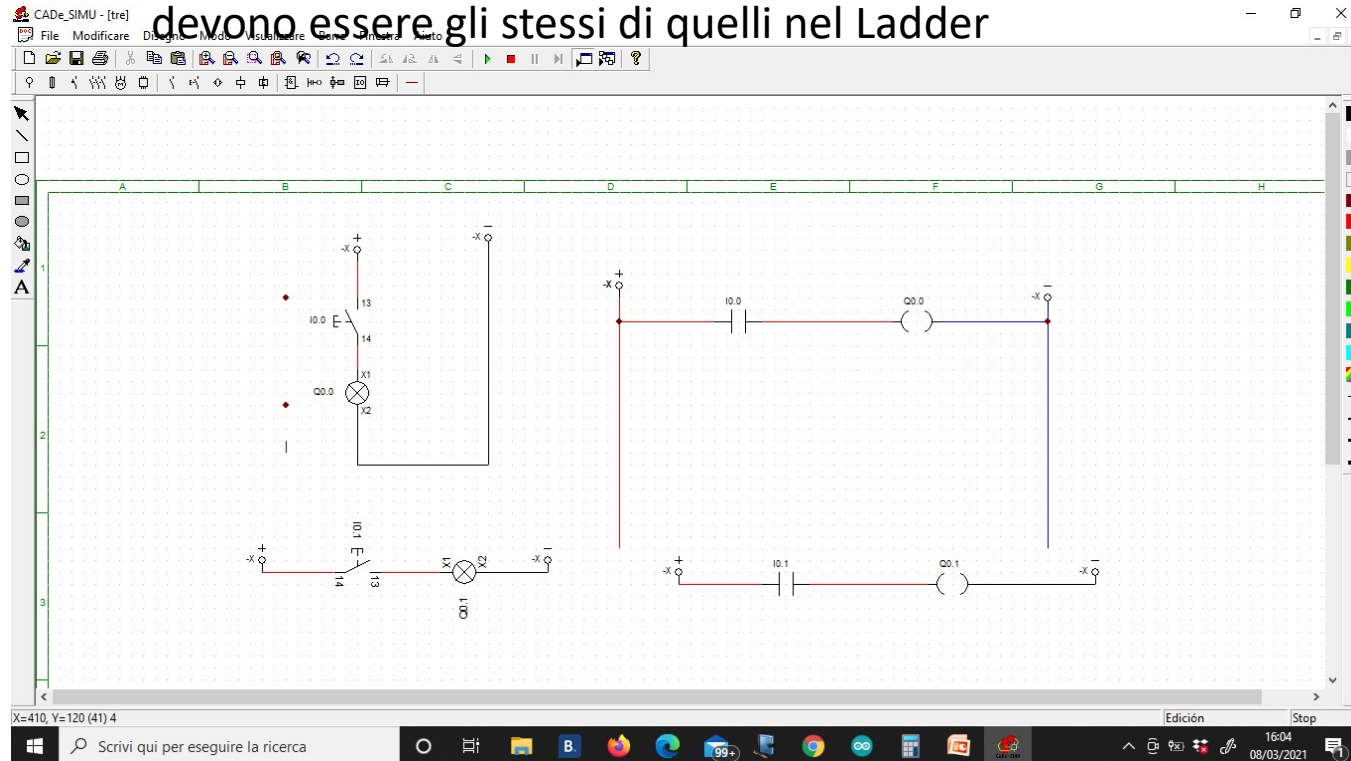


Seconda simulazione: accensione di una lampada con interruttore



Terza simulazione circuito e ladder

Nel ladder il simbolo $-||-$ è un interruttore N.A mentre $-()-$ rappresenta l'attuatore. Per poter funzionare la simulazione, i nomi degli elementi circuitali devono essere gli stessi di quelli nel Ladder



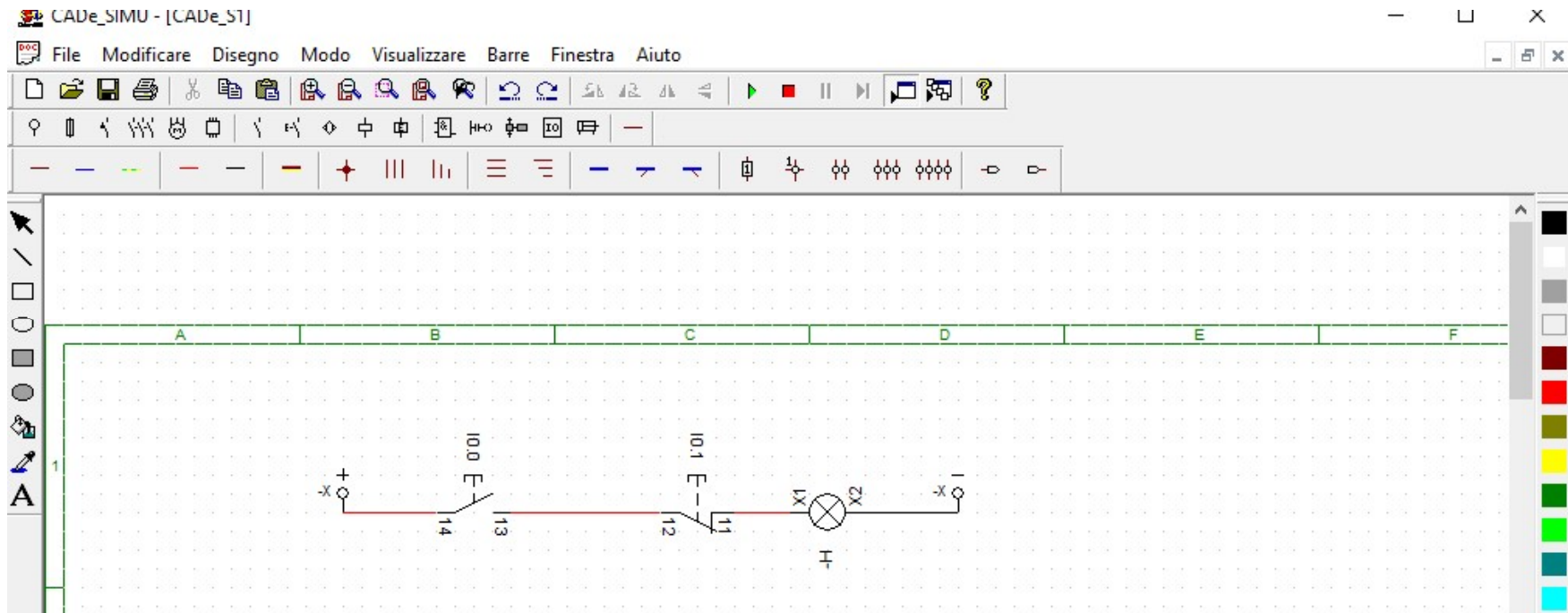
Terza simulazione

The screenshot displays the CADe_SIMU software interface. The main workspace shows a circuit schematic on a grid. The circuit consists of several interconnected components:

- Top Left:** A vertical branch with a resistor labeled 10.0 (between nodes 13 and 14) and a capacitor labeled 00.0 (between nodes X1 and X2).
- Bottom Left:** A branch containing a switch labeled 10.1 (between nodes 13 and 14) and a component labeled 00.1 (between nodes X1 and X2).
- Center:** A vertical branch with a resistor labeled 10.0 (between nodes X and X).
- Right:** A vertical branch with a capacitor labeled 00.0 (between nodes X and X).
- Bottom Center:** A horizontal branch with a resistor labeled 10.1 (between nodes X and X) and a capacitor labeled 00.1 (between nodes X and X).

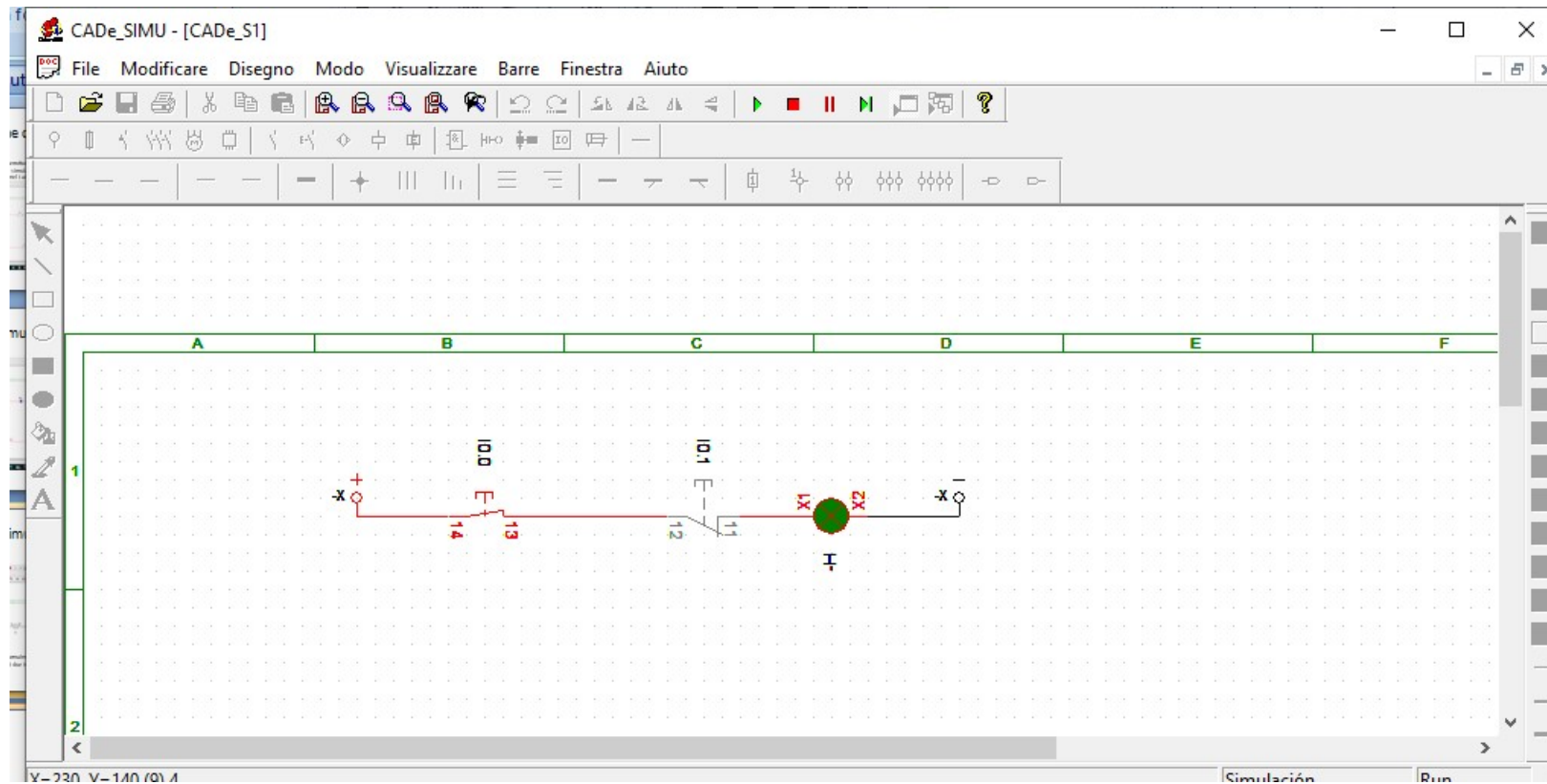
The interface includes a menu bar (File, Modificare, Disegno, Modo, Visualizzare, Barre, Finestra, Aiuto), a toolbar with various simulation and editing tools, and a status bar at the bottom showing coordinates (X=250, Y=180 (41) 4), simulation mode (Simulazione), and a Run button. The Windows taskbar at the bottom shows the system clock as 16:09 on 08/03/2021.

Quarta simulazione



I due interruttori in serie sono uno normalmente aperto e l'altro normalmente chiuso. Affinchè il circuito funzioni, i due interruttori devono avere nomi differenti altrimenti cambiano stato insieme

Quarta simulazione



Quarta simulazione con il Ladder

