

1. Login Page Validation Purpose: Validates login credentials by checking if the user entered both email and password. Shows “Login Successful” if both are filled, else prompts the user to fill details. Code Explanation:
  2. Input fields for email and password.
  3. Submit button.
  4. JS listens for form submission, prevents default page reload, checks non-empty fields, shows alert.
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1. Dark Mode Toggle Purpose: Switch between light and dark themes for better readability. Code Explanation:
  2. Text on page with a “Toggle Theme” button.
  3. JS toggles body background and text colors.
  4. CSS transition for smooth effect.
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1. Character Counter Purpose: Displays live character count and prevents typing beyond 100 characters. Code Explanation:
  2. Textarea for input.
  3. Paragraph to show count.
  4. JS updates count on input and truncates text at 100 chars.
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1. Image Slideshow Purpose: Display images rotating automatically and navigable manually. Code Explanation:
  2. Img element for slideshow.
  3. Next/Previous buttons update src.
  4. setInterval rotates images every 3 seconds.
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1. Online Order Form Purpose: Collect order info and display summary without reloading. Code Explanation:
  2. Input fields: name, item, quantity.
  3. Submit button triggers JS.
  4. JS validates fields and displays summary in paragraph.
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1. Change Background Color Purpose: Changes background randomly on button click. Code Explanation:
2. Button triggers JS function.
3. JS generates random RGB color and sets body.style.background.

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1. College Event Registration Form Purpose: Collect participant details and validate before submission.  
Code Explanation:
  2. Input fields: name, email, department; select for gender.
  3. JS prevents submission if empty, alerts success if all fields filled.
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1. Basic Calculator Purpose: Perform arithmetic operations (Add, Subtract, Multiply, Divide). Code Explanation:
  2. Input fields for two numbers and buttons for operations.
  3. JS reads input, calculates result, handles invalid input and division by zero.
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1. Simple Login Portal Purpose: Login with predefined username/password and validate credentials.  
Code Explanation:
  2. Input fields for username/password.
  3. JS compares inputs to predefined values.
  4. Alerts Welcome on success or Invalid Credentials on failure.
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1. Online Feedback Form Purpose: Collect feedback with rating and comments, validate inputs, thank user. Code Explanation:
2. Input fields: name, email, select rating, textarea comments.
3. JS validates all fields and shows thank-you alert.