

# Flask Practice Questions

1. Create a Flask application that runs on port **5000** and displays the text “**Hello, Flask World!**” when the root URL (/) is accessed.
2. Create a Flask app with three routes:
  - / → displays “Home Page”
  - /about → displays “About Us”
  - /contact → displays “Contact Page”
3. Create a dynamic route /user/<username> that displays the message “**Welcome, <username>!**” where the username is taken from the URL.
4. Create a route /square/<int:number> that returns the square of the given number.
5. Create a Flask route /login that accepts both **GET** and **POST** requests: For GET,
  - display “Login Page”
  - For POST, display “Login Successful”
6. Create an API endpoint /api/info that returns a JSON response containing a name, version, and status.
7. Create a Flask app that renders an HTML template named `index.html` and passes a dynamic page title and heading from the backend.
8. Pass a list of student names from Flask to a template and display them using a `Jinja2 for loop`.
9. Create a Flask form that accepts a user’s email address and displays it on a new page after submission.
10. Create a route /home that redirects the user to /dashboard using `url_for()`.
11. Create a custom **404 error page** that displays the message “**Page Not Found**”.
12. Organize a Flask project using **Blueprints** by separating authentication routes and main routes into different files.

13. Create a RESTful Flask API for a **Product** resource with endpoints to: Add a product

- Get all products
- Get a product by ID
- Update a product
- Delete a product
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14. Connect a Flask application to an **SQLite** database and implement functionality to insert and retrieve user records.

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