Experiment 6	
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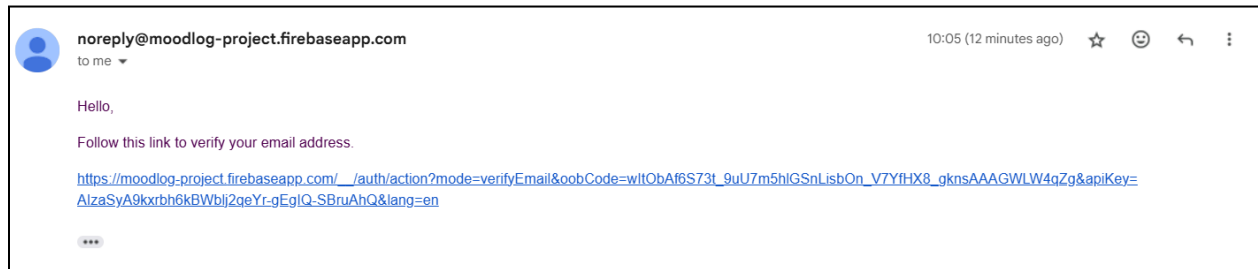**Aim:** To connect flutter UI with firebase database

Theory:

- Connecting Flutter UI with Firebase Database allows the app to store, retrieve, and sync data in real time. In this app, user authentication is handled using Firebase Authentication and user health data is stored in the Firestore database.
- Signup and login functionality:
- Users register by entering their name, email ID, and password.
- Firebase Authentication is used to create and manage user accounts based on the provided email and password.
- After registration, a verification link is automatically sent to the user's registered email by Firebase Authentication to ensure the email address is valid.
- When the user clicks the verification link, their email status is updated. The system checks this verification status before allowing access to the login.
- After verification, the user can log in using their email and password, with Firebase Authentication validating the credentials.
- Users who have logged in are stored.
- All health-related updates or tips given by the admin are stored and made available to users.

Output:

Email verification:

Entries stored in firestore database:

Conclusion:

By connecting Flutter UI with Firebase Database, the app achieves real-time data management and secure user authentication. Using Firebase Authentication ensures safe login and registration, while Firestore enables efficient storage and retrieval of user data. This integration simplifies backend operations and enhances the responsiveness and interactivity of the Flutter application.