

Name: <b>Abhinav Swaminathan</b>	Div-Roll no: <b>D15C-01</b>
DOP:	DOS:
Sign:	Grade:

## Experiment 4

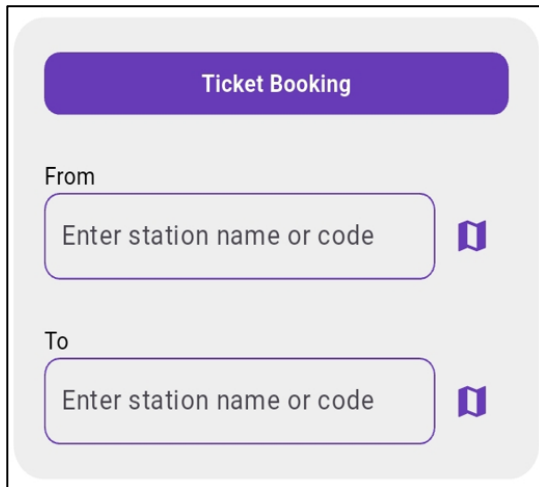
**Aim:** To create an interactive Form using form widget

### Theory:

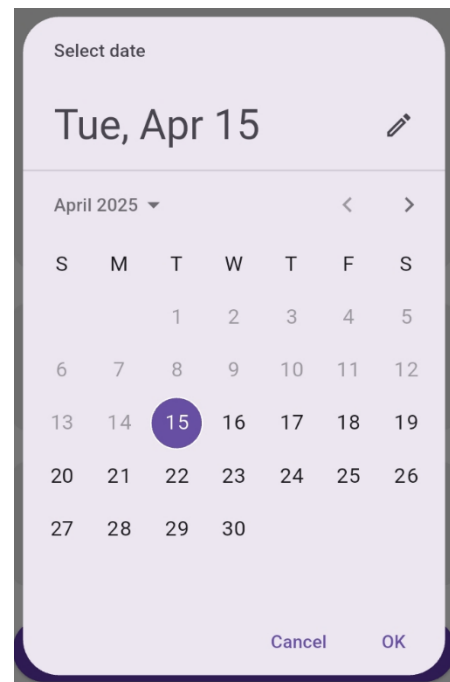
Flutter provides the **Form** widget to group and manage multiple form fields. It helps in validating and saving user input efficiently. In this experiment, we created an interactive form in Flutter using Form, TextFormField, and ElevatedButton widgets. It helped us understand how to collect, validate, and manage user input effectively within a Flutter app.

Forms are commonly used in login screens, registration, or any data-entry interface.

### Output:



The screenshot shows a mobile app interface for 'Ticket Booking'. At the top, there is a purple header bar with the text 'Ticket Booking'. Below the header, there are two input fields. The first field is labeled 'From' and contains the placeholder text 'Enter station name or code'. The second field is labeled 'To' and also contains the placeholder text 'Enter station name or code'. To the right of each input field is a small purple icon resembling a book or a document.



The screenshot shows a date selection calendar interface. At the top, it says 'Select date'. Below this, the selected date is displayed as 'Tue, Apr 15' with a small edit icon to its right. The calendar shows the month of 'April 2025'. The days of the week are listed as S, M, T, W, T, F, S. The dates are arranged in a grid. The date '15' is highlighted with a purple circle. At the bottom of the calendar, there are two buttons: 'Cancel' and 'OK'.

The screenshot shows a mobile application interface for ticket booking. At the top, the status bar displays the time 8:27, signal strength, LTE connectivity, and 42% battery. The app header includes a welcome message "WELCOME BACK, ABHINAVS" and a user profile icon. A red banner in the top right corner reads "New Version 1.0.0 Aug". The main content area features a "Ticket Booking" section with two input fields for "From" and "To", each with a placeholder "Enter station name or code" and a magnifying glass icon. Below these are dropdown menus for "Class" (set to 2A) and "Quota" (set to GN). A "Select Date" section shows a date picker with "2025-04-06" selected. A large purple "Search" button is positioned below the date selector. At the bottom of the form is a "Calibrate Map" button. The bottom navigation bar contains three icons: "Train" (a train icon), "Map" (a globe icon), and "Settings" (a gear icon).

## Conclusion:

By building an interactive form, we learned how to handle user input, perform validations, and manage form state in Flutter. This experiment is essential for developing apps that require user data input, such as login, registration, or feedback forms.