MAD LAB EXP 4

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AIM : To create an interactive Form using a form widget

Code-

```dart
import 'package:flutter/material.dart';


void main() {
  runApp(MyApp());
}


class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: Text('Interactive Form'),
        ),
        body: MyForm(),
      ),
    );
  }
}


class MyForm extends StatefulWidget {
  @override
  _MyFormState createState() => _MyFormState();
}


class _MyFormState extends State<MyForm> {
  final _formKey = GlobalKey<FormState>();
  String _name = '';
```

```dart
String _email = '';
String _selectedGender = 'Male';
bool _subscribeToNewsletter = false;



@override
Widget build(BuildContext context) {
  return Padding(
    padding: const EdgeInsets.all(16.0),
    child: Form(
      key: _formKey,
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          TextFormField(
            decoration: InputDecoration(labelText: 'Name'),
            validator: (value) {
              if (value == null || value.isEmpty) {
                return 'Please enter your name';
              }
              return null;
            },
            onSaved: (value) {
              _name = value!;
            },
          ),
          TextFormField(
            decoration: InputDecoration(labelText: 'Email'),
            validator: (value) {
              if (value == null || value.isEmpty || !value.contains('@')) {
                return 'Please enter a valid email address';
              }
              return null;
            },
            onSaved: (value) {
              _email = value!;
            },
          ),
          DropdownButtonFormField<String>(
            value: _selectedGender,
```

```dart
    items: ['Male', 'Female', 'Other']
        .map((gender) => DropdownMenuItem(
      value: gender,
      child: Text(gender),
    ))
        .toList(),
    onChanged: (value) {
      setState(() {
        _selectedGender = value!;
      });
    },
    decoration: InputDecoration(labelText: 'Gender'),
  ),
  Row(
    children: [
      Checkbox(
        value: _subscribeToNewsletter,
        onChanged: (value) {
          setState(() {
            _subscribeToNewsletter = value ?? false;
          });
        },
      ),
      Text('Subscribe to Newsletter'),
    ],
  ),
  SizedBox(height: 16),
  ElevatedButton(
    onPressed: () {
      if (_formKey.currentState!.validate()) {
        _formKey.currentState!.save();
        // Process the form data, e.g., send it to a server
        print('Name: $_name');
        print('Email: $_email');
        print('Gender: $_selectedGender');
        print('Subscribe to Newsletter: $_subscribeToNewsletter');
      }
    },
    child: Text('Submit'),
  ),
```

```
      ],
    ),
   ),
  );
 }
}
```