Experiment 06

AIM:- Create and application with Flutter UI Components.

Source :- Mai.dart

Code :-

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

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

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: const RegisterScreen(),
    );
  }
}

class RegisterScreen extends StatefulWidget {
  const RegisterScreen({super.key});

  @override
  State<RegisterScreen> createState() => _RegisterScreenState();
}

class _RegisterScreenState extends State<RegisterScreen> {
  final TextEditingController nameController = TextEditingController();
  final TextEditingController emailController = TextEditingController();
  final TextEditingController phoneController = TextEditingController();
  final TextEditingController addressController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();
  final TextEditingController confirmPasswordController = TextEditingController();
  bool showPassword = false;
  bool showConfirmPassword = false;
```

```dart
@override
Widget build(BuildContext context) {
 return Scaffold(
   body: Stack(
     children: [
      // Gradient Background
      Container(
        decoration: const BoxDecoration(
          gradient: LinearGradient(
            colors: [Colors.orangeAccent, Colors.deepPurple],
            begin: Alignment.topLeft,
            end: Alignment.bottomRight,
          ),
        ),
      ),

      // Registration Form
      Center(
        child: Padding(
          padding: const EdgeInsets.all(24.0),
          child: Container(
            padding: const EdgeInsets.all(24.0),
            decoration: BoxDecoration(
              color: Colors.white.withOpacity(0.9),
              borderRadius: BorderRadius.circular(25),
              boxShadow: [
                BoxShadow(
                  color: Colors.black26,
                  blurRadius: 15,
                  spreadRadius: 2,
                ),
              ],
            ),
            child: Column(
              mainAxisSize: MainAxisSize.min,
              children: [
                const Text(
                  "Create Account",
                  style: TextStyle(
                    fontSize: 28,
                    fontWeight: FontWeight.bold,
                    color: Colors.deepPurple,
                  ),
                ),
                const SizedBox(height: 10),
                const Text(
                  "Sign up to get started",
```

```dart
      style: TextStyle(fontSize: 16, color: Colors.black54),
    ),
    const SizedBox(height: 20),

    // Name Field
    TextField(
      controller: nameController,
      decoration: InputDecoration(
        labelText: "Full Name",
        prefixIcon: const Icon(Icons.person, color: Colors.deepPurple),
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(15),
        ),
      ),
      keyboardType: TextInputType.name,
    ),
    const SizedBox(height: 15),

    // Email Field
    TextField(
      controller: emailController,
      decoration: InputDecoration(
        labelText: "Email Address",
        prefixIcon: const Icon(Icons.email, color: Colors.deepPurple),
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(15),
        ),
      ),
      keyboardType: TextInputType.emailAddress,
    ),
    const SizedBox(height: 15),

    // Phone Number Field
    TextField(
      controller: phoneController,
      decoration: InputDecoration(
        labelText: "Phone Number",
        prefixIcon: const Icon(Icons.phone, color: Colors.deepPurple),
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(15),
        ),
      ),
      keyboardType: TextInputType.phone,
    ),
    const SizedBox(height: 15),

    // Address Field
    TextField(
```

```dart
        controller: addressController,
        decoration: InputDecoration(
          labelText: "Address",
          prefixIcon: const Icon(Icons.location_on, color: Colors.deepPurple),
          border: OutlineInputBorder(
            borderRadius: BorderRadius.circular(15),
          ),
        ),
        keyboardType: TextInputType.streetAddress,
      ),
      const SizedBox(height: 15),

      // Password Field with Show/Hide Toggle
      TextField(
        controller: passwordController,
        obscureText: !showPassword,
        decoration: InputDecoration(
          labelText: "Password",
          prefixIcon: const Icon(Icons.lock, color: Colors.deepPurple),
          suffixIcon: IconButton(
            icon: Icon(
              showPassword ? Icons.visibility : Icons.visibility_off,
              color: Colors.grey,
            ),
            onPressed: () {
              setState(() {
                showPassword = !showPassword;
              });
            },
          ),
          border: OutlineInputBorder(
            borderRadius: BorderRadius.circular(15),
          ),
        ),
      ),
      const SizedBox(height: 15),

      // Confirm Password Field with Show/Hide Toggle
      TextField(
        controller: confirmPasswordController,
        obscureText: !showConfirmPassword,
        decoration: InputDecoration(
          labelText: "Confirm Password",
          prefixIcon: const Icon(Icons.lock, color: Colors.deepPurple),
          suffixIcon: IconButton(
            icon: Icon(
              showConfirmPassword ? Icons.visibility : Icons.visibility_off,
              color: Colors.grey,
```

```
        ),
        onPressed: () {
         setState(() {
          showConfirmPassword = !showConfirmPassword;
         });
        },
      ),
      border: OutlineInputBorder(
       borderRadius: BorderRadius.circular(15),
      ),
     ),
    ),

    const SizedBox(height: 20),

    // Register Button
    SizedBox(
     width: double.infinity,
     height: 50,
     child: ElevatedButton(
      onPressed: () {
       String name = nameController.text;
       String email = emailController.text;
       String phone = phoneController.text;
       String address = addressController.text;
       String password = passwordController.text;
       String confirmPassword = confirmPasswordController.text;

       if (password != confirmPassword) {
        ScaffoldMessenger.of(context).showSnackBar(
         const SnackBar(
          content: Text("Passwords do not match!"),
          backgroundColor: Colors.red,
         ),
        );
        return;
       }

       print('Registering: Name: $name, Email: $email, Phone: $phone, Address: $address');
      },
      style: ElevatedButton.styleFrom(
       backgroundColor: Colors.deepPurple,
       shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(25),
       ),
      ),
      child: const Text(
       "Register",
```

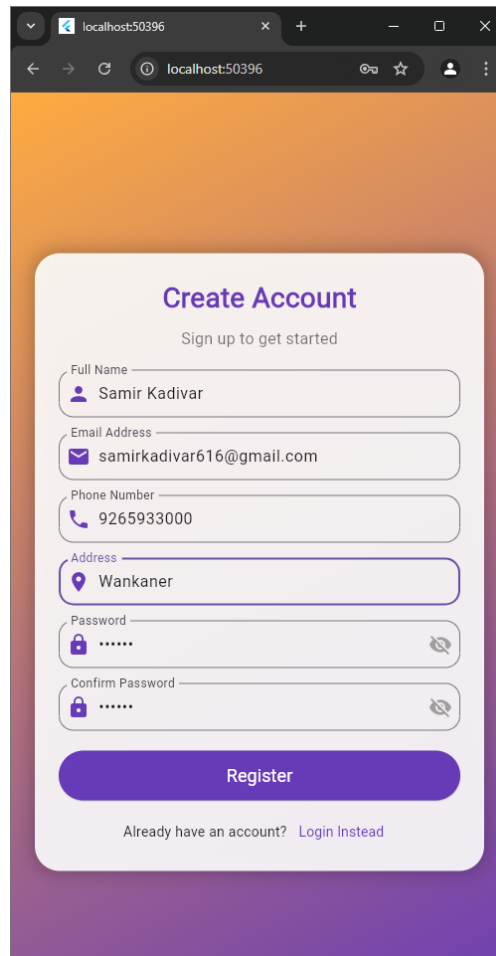```
              style: TextStyle(fontSize: 18, color: Colors.white),
            ),
          ),
        ),

        const SizedBox(height: 15),

        // Already Have an Account? Login
        Row(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            const Text("Already have an account?"),
            TextButton(
              onPressed: () {
                // Navigate back to login page
              },
              child: const Text(
                "Login Instead",
                style: TextStyle(color: Colors.deepPurple),
              ),
            ),
          ],
        ),
      ],
    ),
   ),
  ),
      ),
    ],
   ),
  );
 }
}
```

**Output:-**