

MAD Lab Program 3:

3) Develop Login Screen Application.

```
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,
      title: 'Login Screen',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: const LoginScreen(),
    );
  }
}

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

  @override
  _LoginScreenState createState() => _LoginScreenState();
}

class _LoginScreenState extends State<LoginScreen> {
  final TextEditingController _emailController = TextEditingController();
  final TextEditingController _passwordController = TextEditingController();
  final GlobalKey<FormState> _formKey = GlobalKey<FormState>();
}
```

```

void _login() {
  if (_formKey.currentState!.validate()) {
    // Perform login logic
    ScaffoldMessenger.of(context).showSnackBar(
      const SnackBar(content: Text('Logging in...')),
    );
  }
}

```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Login'),
    ),
    body: Padding(
      padding: const EdgeInsets.all(16.0),
      child: Form(
        key: _formKey,
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            TextFormField(
              controller: _emailController,
              decoration: const InputDecoration(
                labelText: 'Email',
                border: OutlineInputBorder(),
              ),
              validator: (value) {
                if (value == null || value.isEmpty) {
                  return 'Please enter your email';
                }
                if (!RegExp(r'^^[^@\s]+@^[^@\s]+\.[^@\s]+\.$').hasMatch(value)) {
                  return 'Please enter a valid email';
                }
                return null;
              },
            ),

```

```

    ),
    const SizedBox(height: 16.0),
    TextFormField(
      controller: _passwordController,
      decoration: const InputDecoration(
        labelText: 'Password',
        border: OutlineInputBorder(),
      ),
      obscureText: true,
      validator: (value) {
        if (value == null || value.isEmpty) {
          return 'Please enter your password';
        }
        if (value.length < 6) {
          return 'Password must be at least 6 characters';
        }
        return null;
      },
    ),
    const SizedBox(height: 24.0),
    SizedBox(
      width: double.infinity,
      child: ElevatedButton(
        onPressed: _login,
        child: const Text('Login'),
      ),
    ),
  ],
),
),
);
}
}

```