Exp 2: Main.dart

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

void main() => runApp(MaterialApp(
    home: CollegeIdCard(),
  ));

class CollegeIdCard extends StatelessWidget {
 @override
  Widget build(BuildContext context) {
   return Scaffold(
     backgroundColor: Colors.white,
     appBar: AppBar(
       title: Text('College ID Card'),
       centerTitle: true,
       backgroundColor: Colors.pink[900],
       elevation: 0.0,
     ),
     body: Padding(
       padding: const EdgeInsets.fromLTRB(30.0, 40.0, 30.0, 0),
       child: Column(
         crossAxisAlignment: CrossAxisAlignment.start,
         children: <Widget>[
           Center(
             child: CircleAvatar(
               radius: 60.0,
               backgroundImage: AssetImage('img/picc.jpeg'),
             ),
           ),
           Divider(
             color: Colors.grey[800],
             height: 60.0,
           ),
           Text(
            'STUDENT NAME',
            style: TextStyle(
              color: Colors.grey,
              letterSpacing: 2.0,
            ),
           ),
           SizedBox(height: 10.0),
           Text(
            'Rutuja Navghane',
            style: TextStyle(
              color: Colors.pink[300],
              fontWeight: FontWeight.bold,
              fontSize: 18.0,
              letterSpacing: 2.0,
            ),
           ),
           SizedBox(height: 30.0),
           Text(
```

```dart
    'COLLEGE ADDRESS',
    style: TextStyle(
      color: Colors.grey,
      letterSpacing: 2.0,
    ),
),
SizedBox(height: 10.0),
Text(
  'BVCOE Kharghar, Navi Mumbai',
  style: TextStyle(
    color: Colors.pink[300],
    fontWeight: FontWeight.bold,
    fontSize: 16.0,
    letterSpacing: 2.0,
  ),
),
SizedBox(height: 30.0),
Text(
  'CURRENT ACADEMIC YEAR',
  style: TextStyle(
    color: Colors.grey,
    letterSpacing: 2.0,
  ),
),
SizedBox(height: 10.0),
Text(
  'TE - Information Technology',
  style: TextStyle(
    color: Colors.pink[300],
    fontWeight: FontWeight.bold,
    fontSize: 16.0,
    letterSpacing: 2.0,
  ),
),
SizedBox(height: 30.0),
Row(
  children: <Widget>[
    Icon(
      Icons.email,
      color: Colors.grey[400],
    ),
    SizedBox(width: 10.0),
    Text(
      'navghanerutuja@gmail.com',
      style: TextStyle(
        color: Colors.grey[400],
        fontSize: 18.0,
        letterSpacing: 1.0,
      ),
    )
  ],
),
SizedBox(height: 30.0),
Row(
```

```
          children: <Widget>[
            Icon(
              Icons.phone,
              color: Colors.grey[400],
            ),
            SizedBox(width: 10.0),
            Text(
              '8850622507',
              style: TextStyle(
                color: Colors.grey[400],
                fontSize: 18.0,
                letterSpacing: 1.0,
              ),
            )
          ],
        ),
        Divider(
          color: Colors.grey[800],
          height: 60.0,
        ),
        Text(
          'Student Address',
          style: TextStyle(
            color: Colors.grey,
            letterSpacing: 2.0,
          ),
        ),
        SizedBox(height: 5.0),
        Text(
          'Mahavir Apt., Sector 20, airoli, Navi mumbai-400708',
          style: TextStyle(
            color: Colors.grey,
            fontWeight: FontWeight.bold,
            fontSize: 16.0,
            letterSpacing: 2.0,
          ),
        ),
        Divider(
          color: Colors.grey[800],
          height: 60.0,
        ),
      ],
    ),
  ),
);
}
}
```

Exp 3: Main.dart

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

void main() => runApp(MyApp());
```

```dart
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   final appTitle = 'Flutter Form Demo';
   return MaterialApp(
     title: appTitle,
     home: Scaffold(
       appBar: AppBar(
         title: Text(appTitle),
       ),
       body: MyCustomForm(),
     ),
   );
 }
}
// Create a Form widget.
class MyCustomForm extends StatefulWidget {
 @override
 MyCustomFormState createState() {
   return MyCustomFormState();
 }
}
// Create a corresponding State class, which holds data related to the form.
class MyCustomFormState extends State<MyCustomForm> {
 // Create a global key that uniquely identifies the Form widget
 // and allows validation of the form.
 final _formKey = GlobalKey<FormState>();

 @override
 Widget build(BuildContext context) {
   // Build a Form widget using the _formKey created above.
   return Form(
     key: _formKey,
     child: Column(
       crossAxisAlignment: CrossAxisAlignment.start,
       children: <Widget>[
         TextFormField(
           decoration: const InputDecoration(
             icon: const Icon(Icons.person),
             hintText: 'Enter your full name',
             labelText: 'Name',
           ),
           validator: (String? value) {
             if (value!.isEmpty) {
               return 'Please enter some text';
             }
             return null;
           },
```

```dart
        ),
        TextFormField(
          decoration: const InputDecoration(
            icon: const Icon(Icons.phone),
            hintText: 'Enter a phone number',
            labelText: 'Phone',
          ),
          validator: (String? value) {
            if (value!.isEmpty) {
              return 'Please enter valid phone number';
            }
            return null;
          },
        ),
        TextFormField(
          decoration: const InputDecoration(
            icon: const Icon(Icons.calendar_today),
            hintText: 'Enter your date of birth',
            labelText: 'Dob',
          ),
          validator: (String? value) {
            if (value!.isEmpty) {
              return 'Please enter valid date';
            }
            return null;
          },
        ),
        new Container(
          padding: const EdgeInsets.only(left: 150.0, top: 40.0),
          child: new ElevatedButton(
            child: const Text('Submit'),
            onPressed: () {
              // It returns true if the form is valid, otherwise returns false
              if (_formKey.currentState!.validate()) {
                // If the form is valid, display a Snackbar.
                Scaffold.of(context)
                    .showSnackBar(SnackBar(content: Text('Data is in processing.')));
              }
            },
          )),
      ],
    ),
  );
}
}
```

Exp 4: Main.dart

```dart
import 'dart:ui';

import 'package:flutter/material.dart';

void main() => runApp(const MyApp());

class MyApp extends StatelessWidget {
 const MyApp({Key? key}) : super(key: key);

 static const String _title = 'Flutter Tutorial';

 @override
 Widget build(BuildContext context) {
  return MaterialApp(
    title: _title,
    home: Scaffold(
      appBar: AppBar(title: const Text(_title)),
      body: const MyStatefulWidget(),
    ),
  );
 }
}

class MyStatefulWidget extends StatefulWidget {
 const MyStatefulWidget({Key? key}) : super(key: key);

 @override
 State<MyStatefulWidget> createState() => _MyStatefulWidgetState();
}

class _MyStatefulWidgetState extends State<MyStatefulWidget> {
 @override
 Widget build(BuildContext context) {
  return Center(
    child: GridView(
      gridDelegate: const SliverGridDelegateWithFixedCrossAxisCount(
        crossAxisCount: 3,
      ),
      primary: false,
      padding: const EdgeInsets.all(20),
      children: <Widget>[
        Container(
          padding: const EdgeInsets.all(8),
          child: const Text("Rutuja"),
          color: Colors.orange[200],
        ),
        Container(
          padding: const EdgeInsets.all(8),
          child: const Text("Navghane"),
```

```dart
      color: Colors.green[200],
    ),
    Container(
      padding: const EdgeInsets.all(8),
      child: const Text("Roll No 48"),
      color: Colors.red[200],
    ),
    Container(
      padding: const EdgeInsets.all(8),
      child: const Text("Bharati Vidyapeeth"),
      color: Colors.purple[200],
    ),
    Container(
      padding: const EdgeInsets.all(8),
      child: const Text("College Of Engineering"),
      color: Colors.blueGrey[200],
    ),
    Container(
      padding: const EdgeInsets.all(12),
      child: const Text("Information Technology"),
      color: Colors.yellow[200],
    ),
  ],
    )
  );
 }
}
```

Exp 5: Main.dart

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

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {

// This widget is the root
// of your application

 @override
 Widget build(BuildContext context) {

  return MaterialApp(

    home: Scaffold(
      appBar: AppBar(
```

```
        title: Text('Rutuja Navghane'),
      ),

      body: Center(
        child: Column(
          children: <Widget>[
            Image.asset('assets/images/photo.jpg'),
          ],
        ),
      ),
    ),
  );
 }
}
```

Pubspec.yaml

```
name: exp1
description: A new Flutter project.

# The following line prevents the package from being accidentally published to
# pub.dev using `flutter pub publish`. This is preferred for private packages.
publish_to: 'none' # Remove this line if you wish to publish to pub.dev

# The following defines the version and build number for your application.
# A version number is three numbers separated by dots, like 1.2.43
# followed by an optional build number separated by a +.
# Both the version and the builder number may be overridden in flutter
# build by specifying --build-name and --build-number, respectively.
# In Android, build-name is used as versionName while build-number used as versionCode.
# Read more about Android versioning at https://developer.android.com/studio/publish/versioning
# In iOS, build-name is used as CFBundleShortVersionString while build-number used as CFBundleVersion.
# Read more about iOS versioning at
#
https://developer.apple.com/library/archive/documentation/General/Reference/InfoPlistKeyReference/Articles/Core
FoundationKeys.html
version: 1.0.0+1

environment:
 sdk: ">=2.16.2 <3.0.0"

# Dependencies specify other packages that your package needs in order to work.
# To automatically upgrade your package dependencies to the latest versions
# consider running `flutter pub upgrade --major-versions`. Alternatively,
# dependencies can be manually updated by changing the version numbers below to
# the latest version available on pub.dev. To see which dependencies have newer
# versions available, run `flutter pub outdated`.
dependencies:
```

```yaml
flutter:
  sdk: flutter



# The following adds the Cupertino Icons font to your application.
# Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.2

dev_dependencies:
 flutter_test:
   sdk: flutter

# The "flutter_lints" package below contains a set of recommended lints to
# encourage good coding practices. The lint set provided by the package is
# activated in the `analysis_options.yaml` file located at the root of your
# package. See that file for information about deactivating specific lint
# rules and activating additional ones.
 flutter_lints: ^1.0.0

# For information on the generic Dart part of this file, see the
# following page: https://dart.dev/tools/pub/pubspec

# The following section is specific to Flutter.
flutter:
 assets:
   - assets/images/photo.jpg

# The following line ensures that the Material Icons font is
# included with your application, so that you can use the icons in
# the material Icons class.
 uses-material-design: true

# To add assets to your application, add an assets section, like this:
# assets:
#   - images/a_dot_burr.jpeg
#   - images/a_dot_ham.jpeg

# An image asset can refer to one or more resolution-specific "variants", see
# https://flutter.dev/assets-and-images/#resolution-aware.

# For details regarding adding assets from package dependencies, see
# https://flutter.dev/assets-and-images/#from-packages

# To add custom fonts to your application, add a fonts section here,
# in this "flutter" section. Each entry in this list should have a
# "family" key with the font family name, and a "fonts" key with a
# list giving the asset and other descriptors for the font. For
# example:
```

```yaml
# fonts:
#   - family: Schyler
#     fonts:
#       - asset: fonts/Schyler-Regular.ttf
#       - asset: fonts/Schyler-Italic.ttf
#         style: italic
#   - family: Trajan Pro
#     fonts:
#       - asset: fonts/TrajanPro.ttf
#       - asset: fonts/TrajanPro_Bold.ttf
#         weight: 700
#
# For details regarding fonts from package dependencies,
# see https://flutter.dev/custom-fonts/#from-packages
```

Exp 6: Main.dart

```dart
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
return MaterialApp(
title: 'Flutter Demo',
home: MyHomePage(),
);
}
}
class MyHomePage extends StatefulWidget {
@override
_MyHomePageState createState() => _MyHomePageState();
}
class MySecondPage extends StatefulWidget {
@override
_MySecondPageState createState() => _MySecondPageState();
}
class _MyHomePageState extends State<MyHomePage> {
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text('Hello,My name is Rutuja....This is home-page'),
),
body: Center(
child: RaisedButton(
child: Text('Go to Second Screen'),
```

```dart
          onPressed: () {
          Navigator.push(
          context,
          MaterialPageRoute(builder: (context) => MySecondPage()),
          );
          },
          ),
          ),
          );
          }
          }
class _MySecondPageState extends State<MySecondPage> {
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text('This is Second Screen after navigation...'),
),
body: Center(
child: RaisedButton(
child: Text('Go back to Home Screen !!'),
onPressed: () {
Navigator.pop(context);
},
),
),
);
}
}
```