





Windows / Linux



Session 6

Summary:-

- 1. In today's session we got to know about widgets, decoration, container, properties of Scaffold, Appbar, runApp, column function and basic widgets in flutter such as column, container, image, icon and much more.
- 2.Scaffold :- Widget to design canvas and capable of creating widget inside it whereas default scaffold is white.
- 3. Scaffold contains almost everything you need to create a functional and responsive apps.
- 3. The body is a Text placed in a Center in order to center the text within the Scaffold.
- 4. Inside the container we can use various other things such as color, decoration, child, width, height to make our app attractive.
- 5.Decoration: Decoration is used to change the look of the boundary created by container. We can't use decoration and colour together because decoration have there own color property.
- 6. Color: Color is used to change the color.
- 7. Width and height: Adjust width and height on the screen (how much area should be covered on the screen according to the given input).
- 8.Box decoration function: This function is used customize the image, text and many other things which are present inside the box. If we want to create boxes we can use layout function instead of Boxdecoration function.
- 9. We can create container inside the container as per our requirement.
- 10. To overcome the limitation of container, we used column fun() .We can use multiple (children).The column fun () supports the list.
- 11. If the requirement is to keep multiple things in an application, so we can use column widget in place of container.
- 12.Border Radius:- The border-radius property is used to round the corners of an element
- 13.ImageNetwork Function :- Display images from the internet.To work with images from a URL, use the Image.network().
- 14. CenterTitle: Align title at the center of appbar. It is Set to true.

Command Prompt - flutter create secondflutter_app

```
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\Asus>cd C:\src\flutter\flutter class\projects
C:\src\flutter\flutter_class\projects>dir
 Volume in drive C is OS
 Volume Serial Number is 3CCE-7C22
Directory of C:\src\flutter\flutter class\projects
22/07/2020 09:12 PM
                       <DIR>
22/07/2020 09:12 PM
                       <DIR>
22/07/2020 09:36 PM
                       <DIR>
                                      firstflutter app
17/07/2020 02:29 AM
                       <DIR>
                                      test_app
21/07/2020 12:20 AM
                       <DIR>
                                      test_app2
21/07/2020 10:28 PM
                       <DIR>
                                      test app3
              0 File(s)
                                      0 bytes
              6 Dir(s)
                         9,515,028,480 bytes free
```

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□ Command Prompt − □ ×

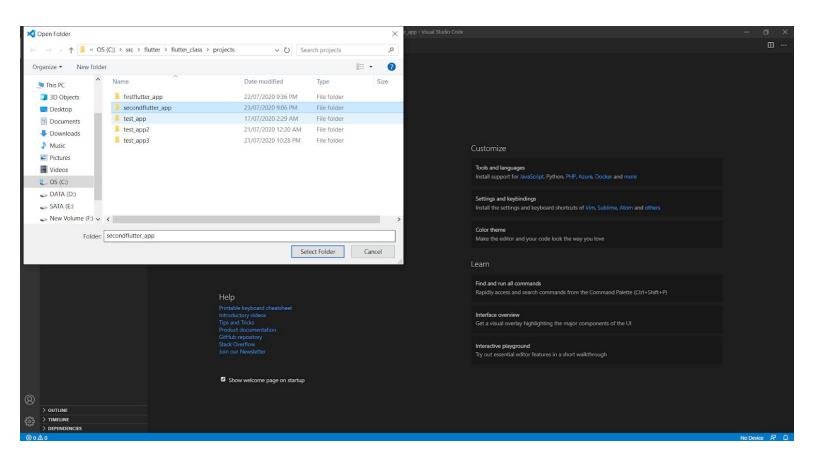
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   secondflutter_app\ios\Runner\Runner-Bridging-Header.h (created)
    secondflutter_app\ios\Runner.xcodeproj\project.pbxproj (created)
   secondflutter_app\ios\Runner.xcodeproj\xcshareddata\xcschemes\Runner.xcscheme (created)
   secondflutter_app\ios\.gitignore (created)
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   secondflutter_app\ios\Runner\Base.lproj\LaunchScreen.storyboard (created)
   secondflutter_app\ios\Runner\Base.lproj\Main.storyboard (created)
   secondflutter_app\ios\Runner\Info.plist (created)
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   secondflutter_app\ios\Runner.xcworkspace\xcshareddata\WorkspaceSettings.xcsettings (created)
   secondflutter_app\lib\main.dart (created)
   secondflutter_app\secondflutter_app.iml (created)
   secondflutter_app\pubspec.yaml (created)
   secondflutter_app\README.md (created)
   secondflutter_app\test\widget_test.dart (created)
 unning "flutter pub get" in secondflutter_app...
                                                                                                                                                                           10 05
  rote 72 files.
All done!
       Flutter: is fully installed. (Channel stable, v1.17.5, on Microsoft Windows [Version 10.0.18362.900], locale en-US)
        Android toolchain - develop for Android devices: is fully installed. (Android SDK version 29.0.3)
       Android Studio: is fully installed. (version 4.0)
```

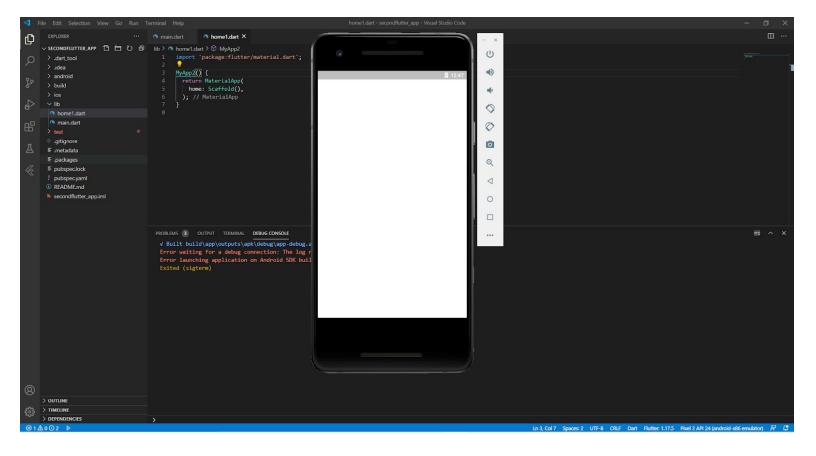
Run "flutter doctor" for information about installing additional components.

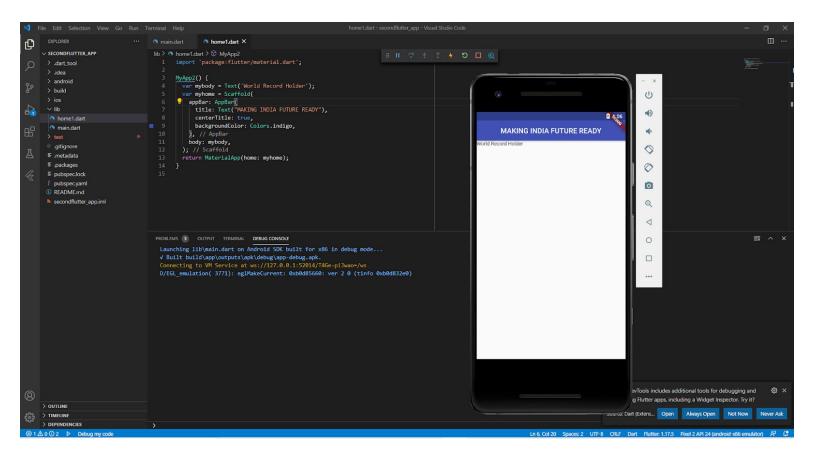
In order to run your application, type:

```
$ cd secondflutter_app
$ flutter run
```

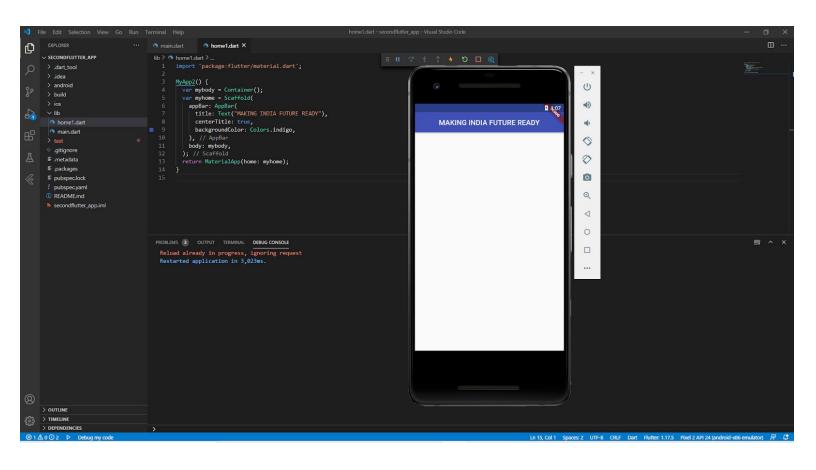
Your application code is in secondflutter_app\lib\main.dart.

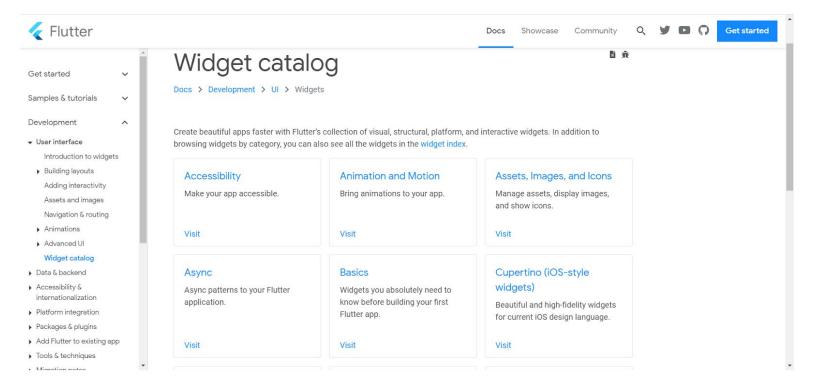


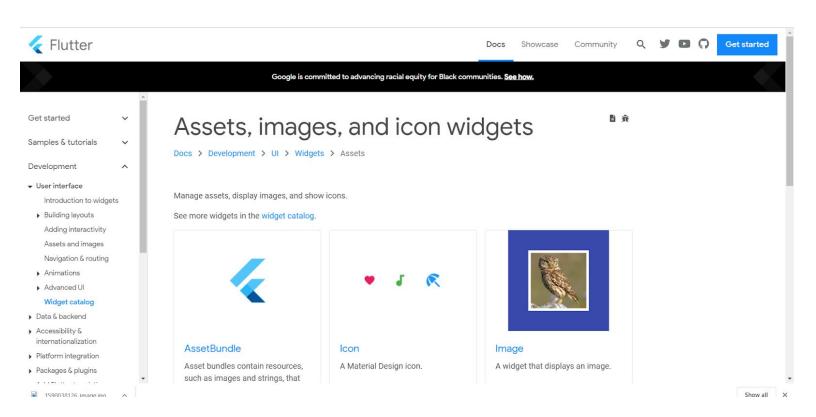


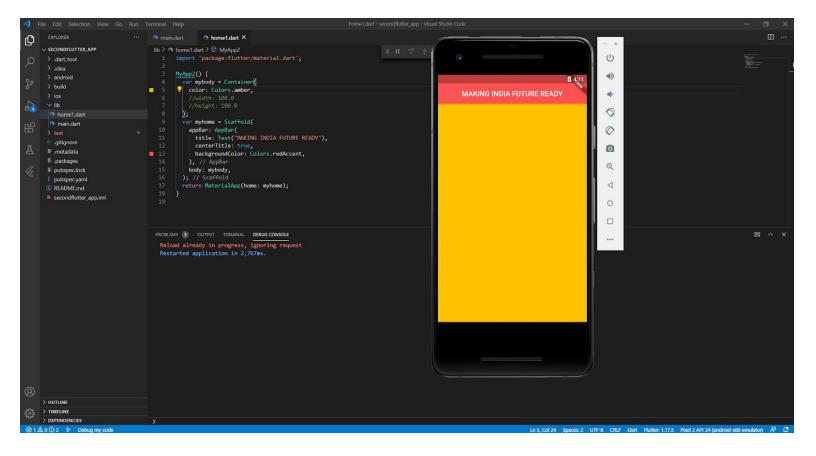


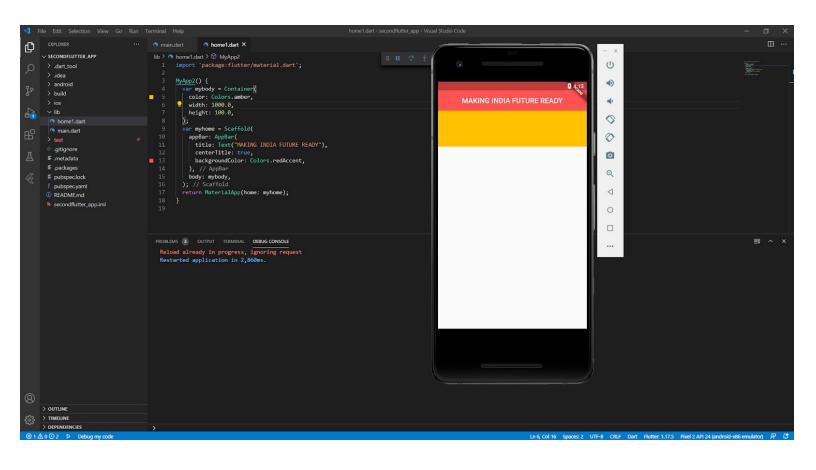


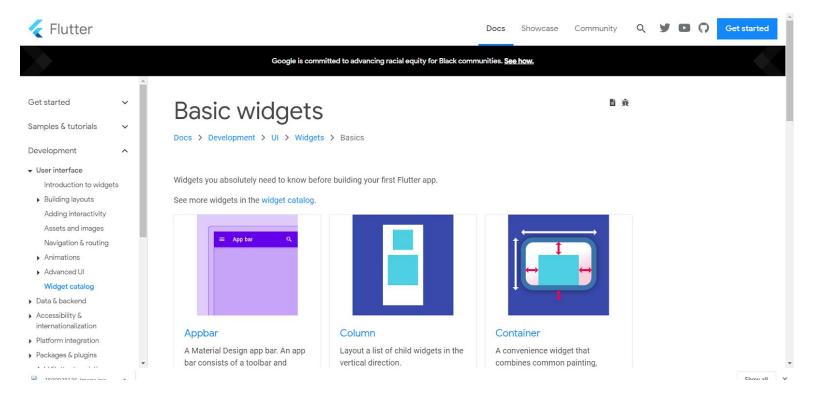


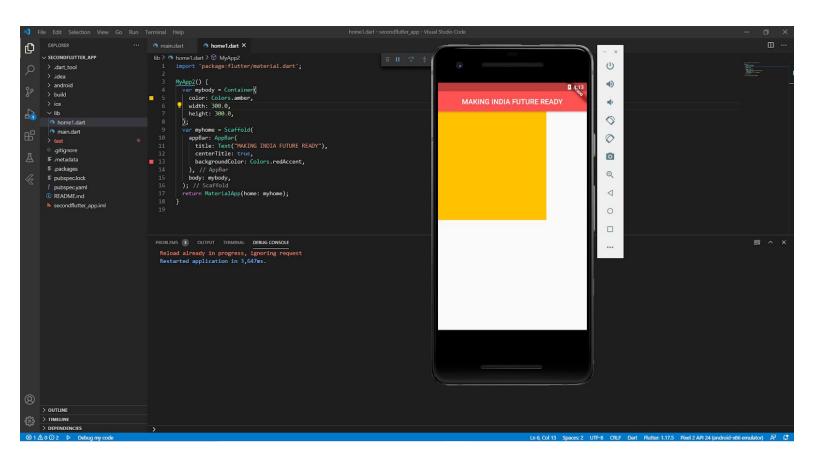


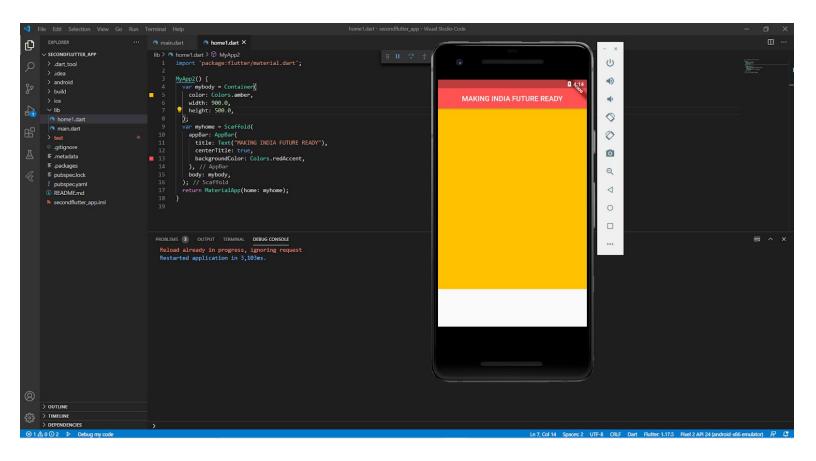


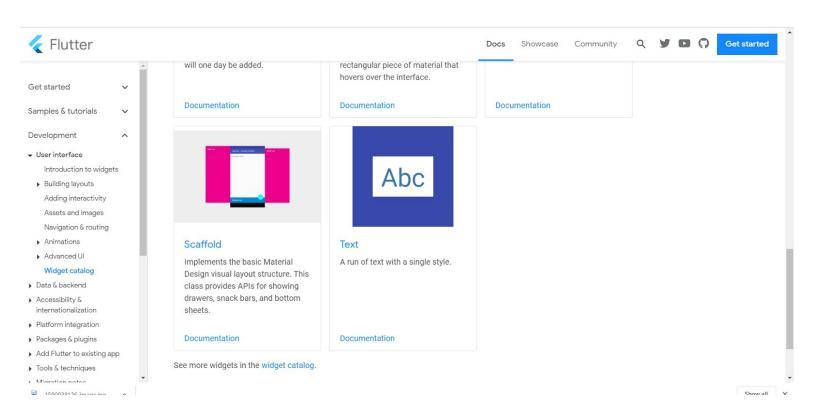


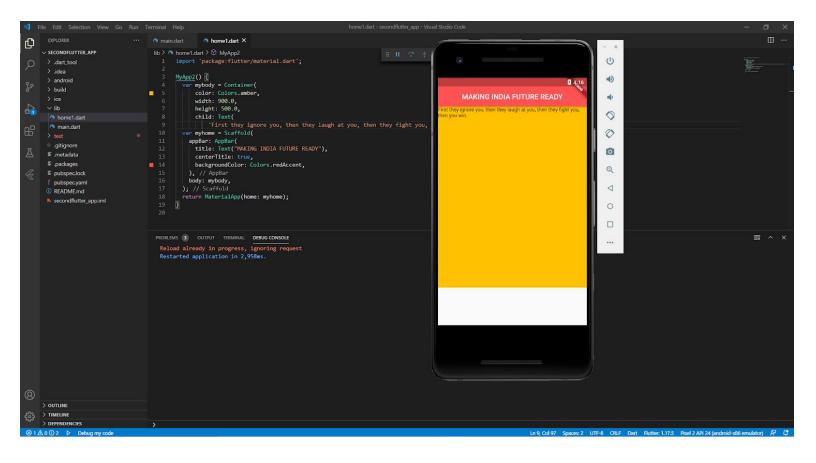


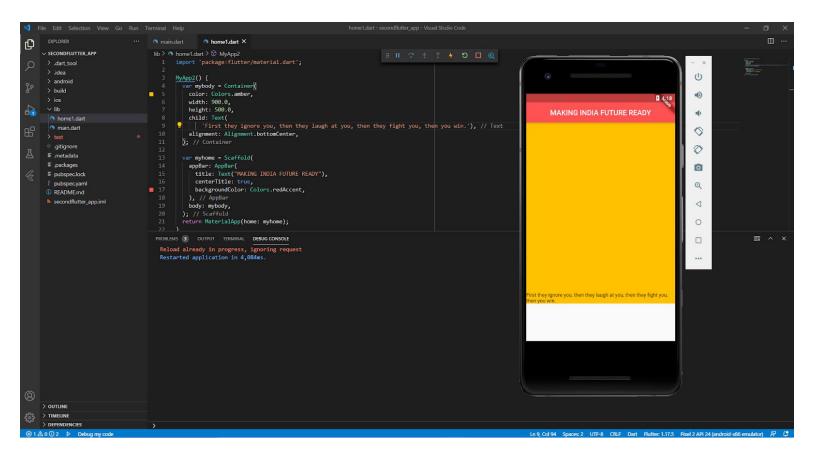


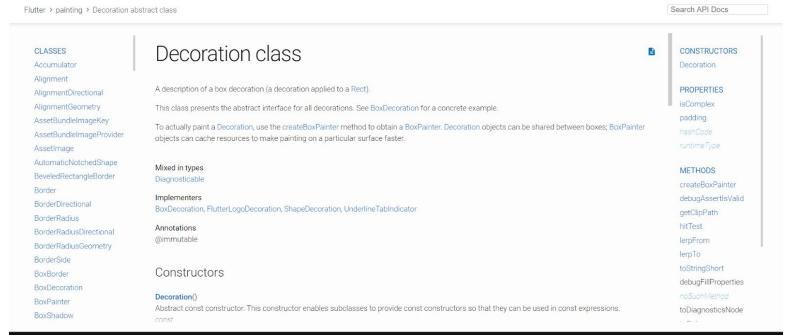


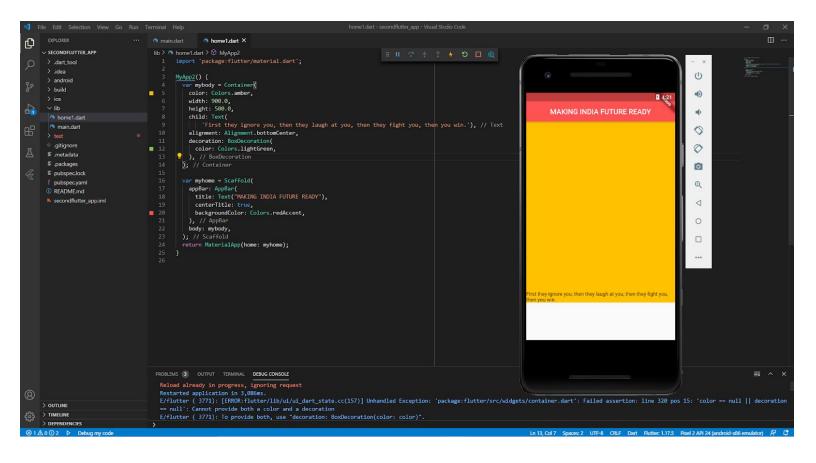


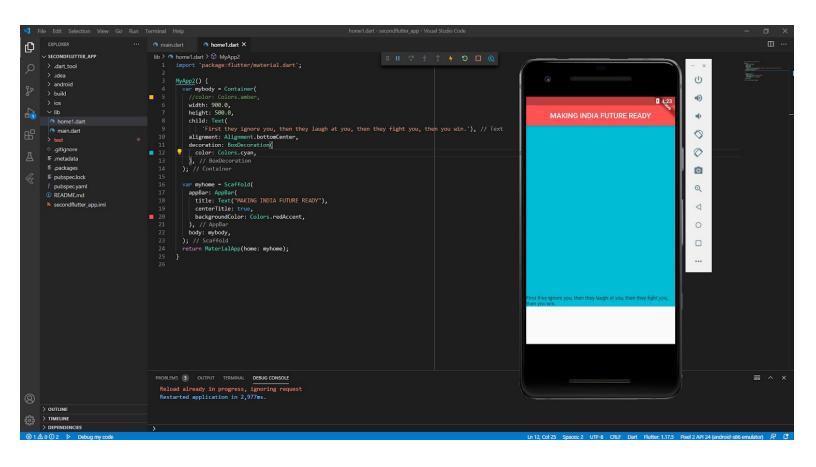




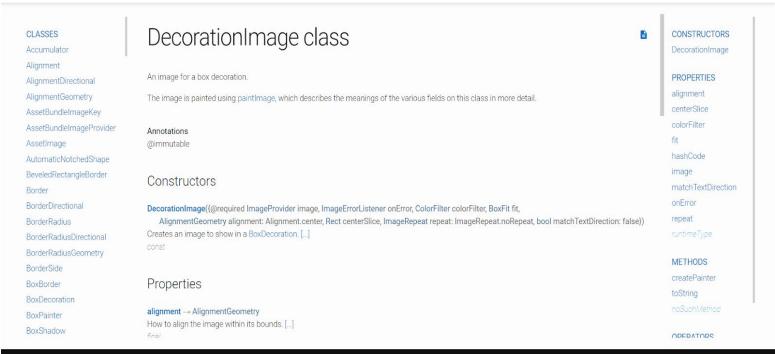




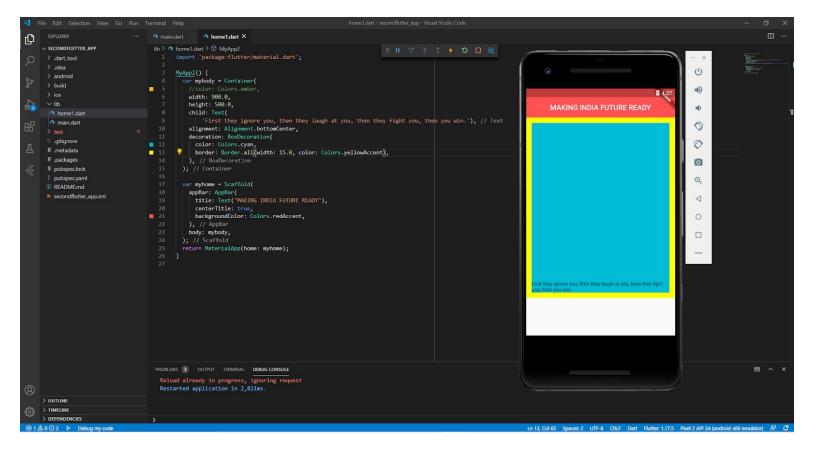




Flutter > painting > DecorationImage class

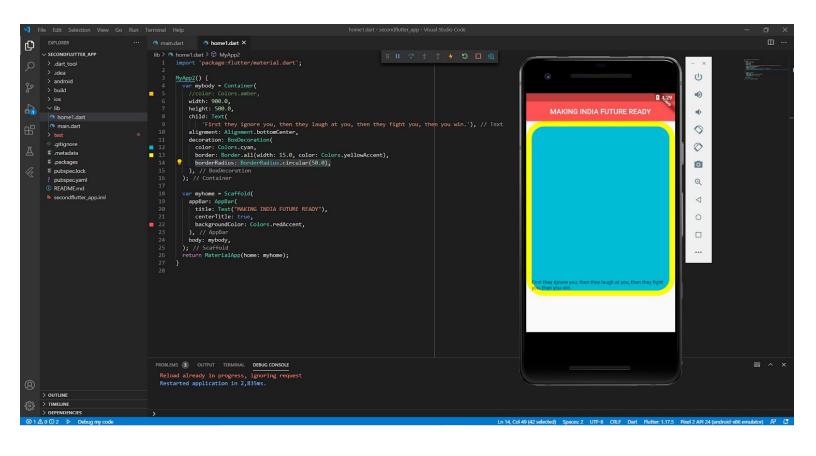


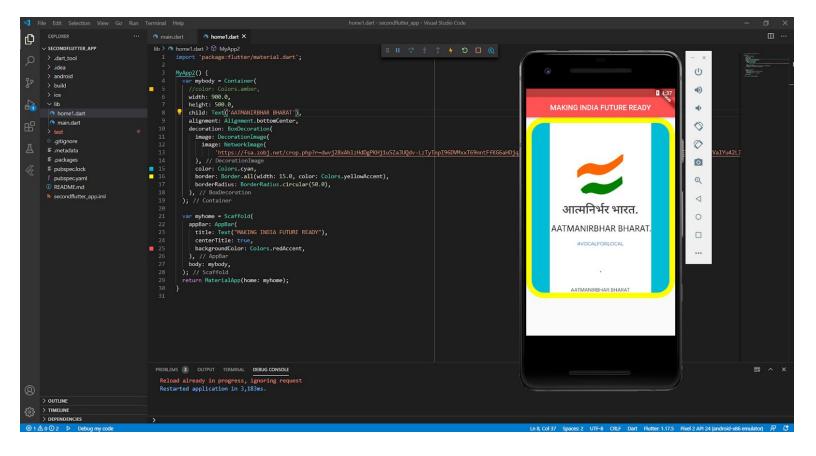
Flutter 1.17.4 • 2020-06-18 15:47 • 1ad9baa8b9 • stable



import 'package:flutter/material.dart';

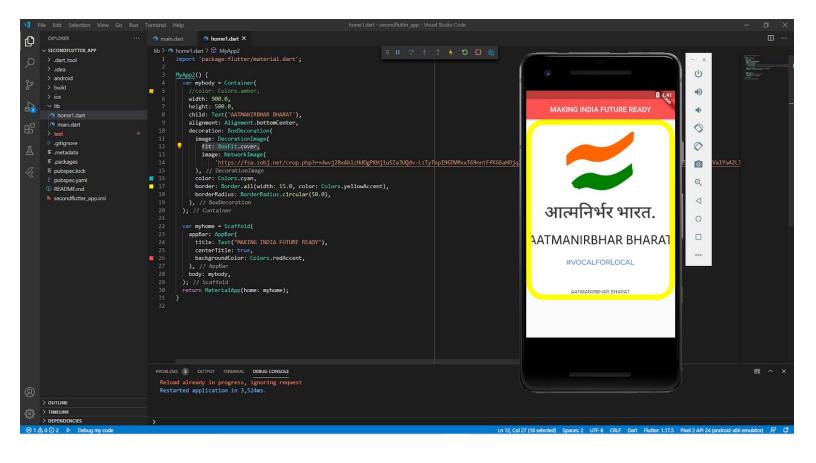
```
MyApp2() {
 var mybody = Container(
  //color: Colors.amber,
  width: 900.0,
  height: 500.0,
  child: Text(
    'First they ignore you, then they laugh at you, then they fight you, then you win.'),
  alignment: Alignment.bottomCenter,
  decoration: BoxDecoration(
   color: Colors.cyan,
   border: Border.all(
 width: 15.0,
color: Colors.black38),
var myhome = Scaffold(
  appBar: AppBar(
   title: Text("MAKING INDIA FUTURE READY"),
   centerTitle: true,
   backgroundColor: Colors.redAccent,
 ),
  body: mybody,
);
return MaterialApp(home: myhome);
```

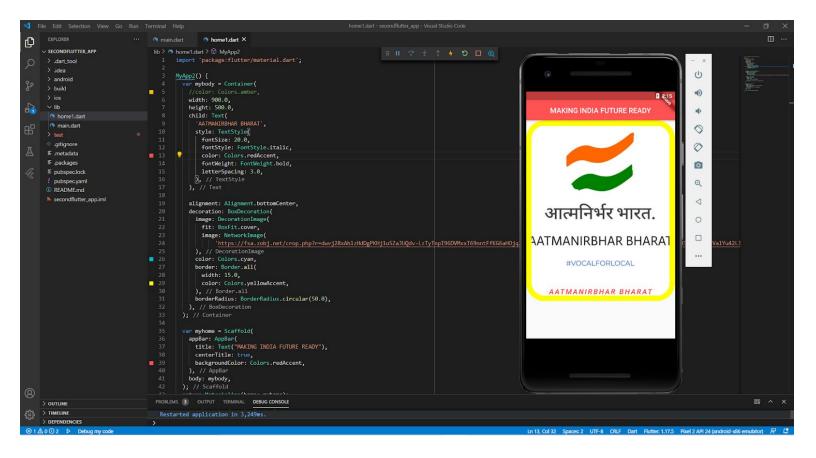


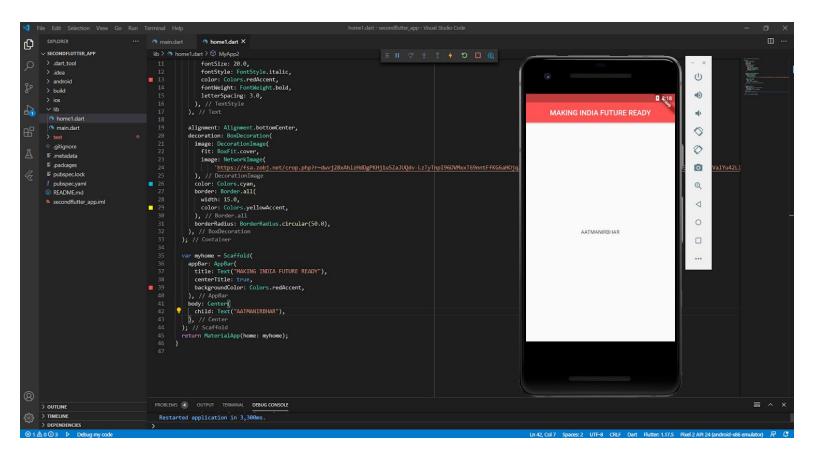


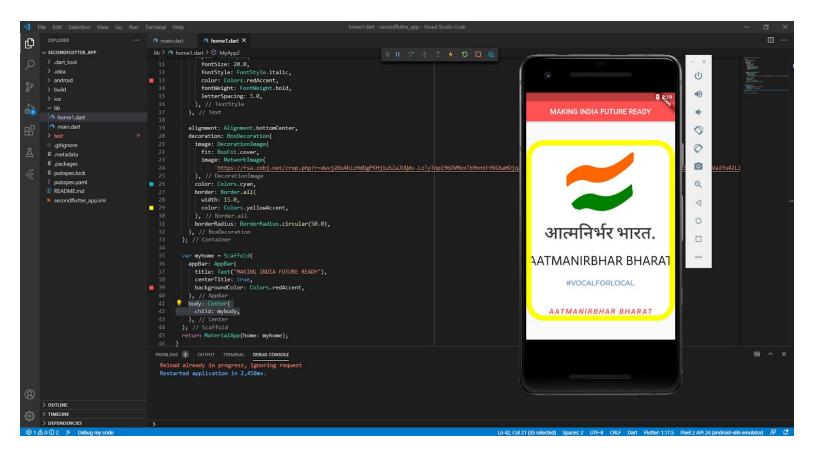
import 'package:flutter/material.dart';

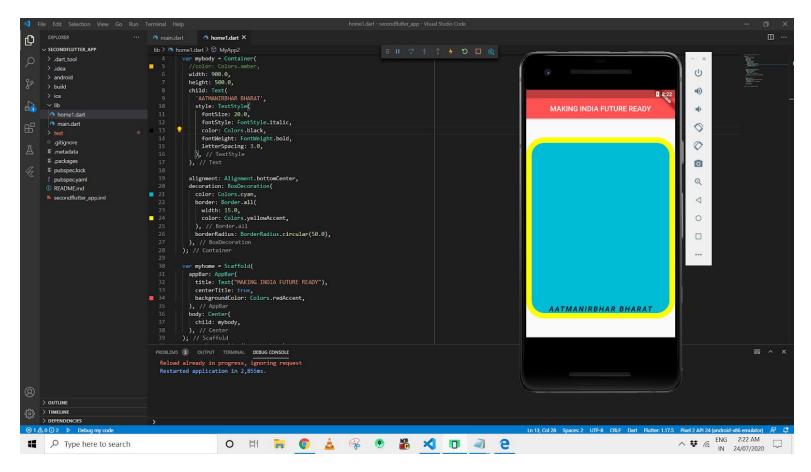
```
MyApp2() {
 var mybody = Container(
  //color: Colors.amber,
  width: 900.0,
  height: 500.0,
  child: Text('AATMANIRBHAR BHARAT'),
  alignment: Alignment.bottomCenter,
  decoration: BoxDecoration(
   image: DecorationImage(
    image: NetworkImage(
'https://fsa.zobj.net/crop.php?r=dwvj28xAhlzHdDgPKHj1uSZaJUQdv-LzTyTnpl96DVMxxT69nntFfKG6aHOjq2eyqeXklY
1djR-kzXqYKOZhd7GyKkx1CaTgS56eOGGb45-T72LH37bRMscnWValYu42Ll35ckyodvApAscJ'),
   ),
   color: Colors.cyan,
   border: Border.all(width: 15.0, color: Colors.yellowAccent),
   borderRadius: BorderRadius.circular(50.0),
 var myhome = Scaffold(
  appBar: AppBar(
   title: Text("MAKING INDIA FUTURE READY"),
   centerTitle: true,
   backgroundColor: Colors.redAccent,
  body: mybody,
return MaterialApp(home: myhome);
```

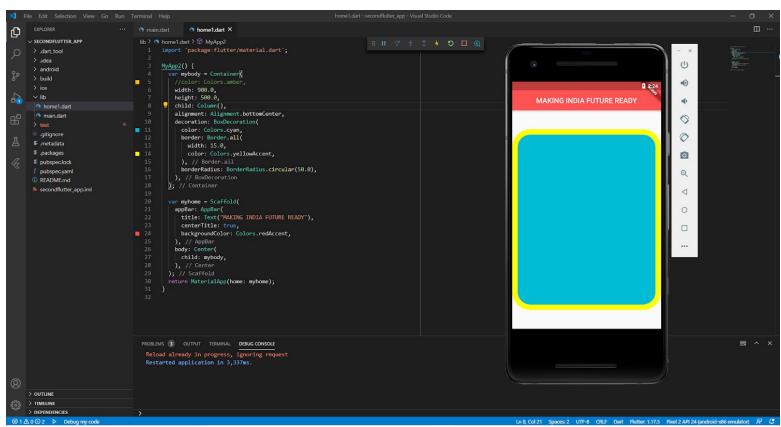


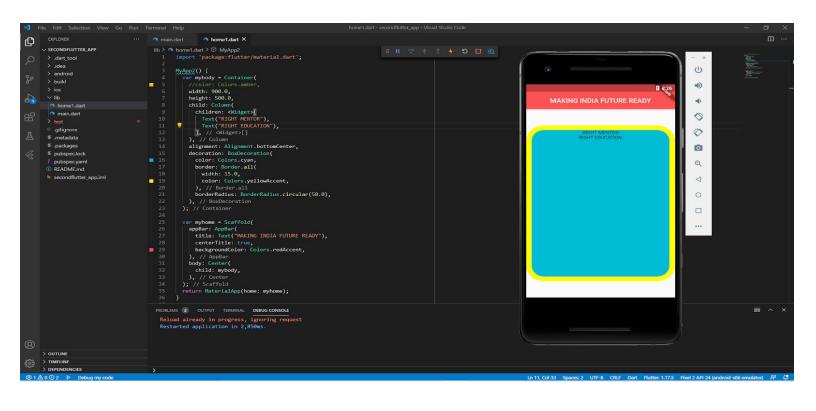


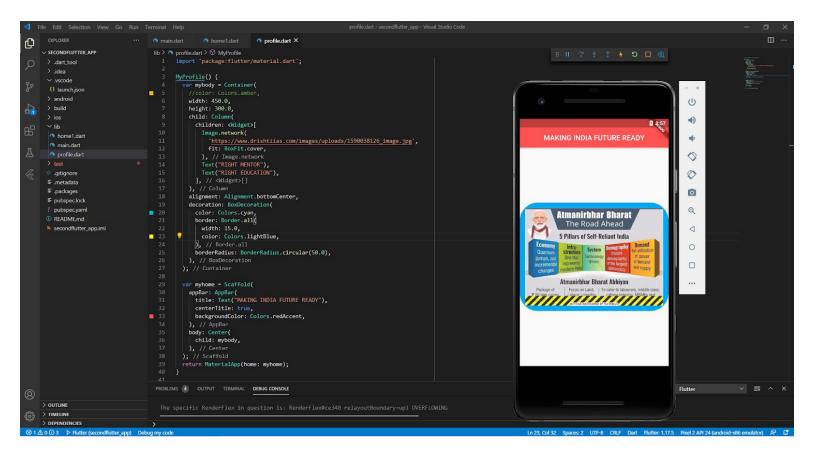












```
MyProfile() {
 var mybody = Container(
    //color: Colors.amber,
   width: 450.0,
   height: 300.0,
    child: Column (
      children: <Widget>[
        Image.network(
          'https://www.drishtiias.com/images/uploads/1590038126 image.jpg',
          fit: BoxFit.cover,
        ),
        Text("RIGHT MENTOR"),
        Text("RIGHT EDUCATION"),
     ],
    ),
    alignment: Alignment.bottomCenter,
    decoration: BoxDecoration(
     color: Colors.cyan,
     border: Border.all(
       width: 15.0,
        color: Colors.lightBlue,
      ),
     borderRadius: BorderRadius.circular(50.0),
    ),
 );
 var myhome = Scaffold(
   appBar: AppBar(
      title: Text("MAKING INDIA FUTURE READY"),
      centerTitle: true,
     backgroundColor: Colors.redAccent,
    ),
   body: Center(
     child: mybody,
    ),
  return MaterialApp(home: myhome);
```