

FOR PRACTICE

Image widgets:

```
return Scaffold(  
  backgroundColor: Colors.black12,  
  appBar: AppBar(title: Text("Image Example"), backgroundColor:  
Colors.blue,),  
  body: Center(child: Container(  
    width: 200,  
    height: 200,  
    child: Image.asset("assets/images/flutter_icon.png"))) ,  
);
```

Button Example

```
return Scaffold(  
  appBar: AppBar(  
    title:Text("My First Flutter App"),  
    backgroundColor: Colors.black12,  
  ),  
  body: OutlinedButton(onPressed: () { print("Outlined Button  
Pressed!"); },  
    child: Text("Outlined Button"),)  
);
```

For styling a button--

```
style: TextButton.styleFrom(  
    backgroundColor: Colors.blue)
```

Inkwell Example

```
return Scaffold(  
  appBar: AppBar(  
    // TRY THIS: Try changing the color here to a specific  
color (to  
    // Colors.amber, perhaps?) and trigger a hot reload to see  
the AppBar  
    // change color while the other colors stay the same.  
    backgroundColor: Colors.black12,  
    // Here we take the value from the MyHomePage object that  
was created by  
    // the App.build method, and use it to set our appBar  
title.  
    title: Text("InkwellExample"),
```

```

    ),
    body: Center(
      child: InkWell(
        onTap: () {
          print("Tapped on container!");
        },
        onTap: () {
          print("Double Tapped on container!");
        },
        onLongPress: () {
          print("Long Pressed on container!");
        },
        child: Container(
          width: 200,
          height: 200,
          color: Colors.amberAccent,
          child: Center(
            child: InkWell(
              onTap: () {
                print("Text is Tapped!");
              },
              child: Text(
                "Click Me!",
                style: TextStyle(
                  fontWeight:
FontWeight.bold,
                ),
              ),
            ),
          ),
        ),
      ),
    ),
  ),
  // This trailing comma makes auto-formatting nicer for build
  methods.
);

```

Rows and columns example

```

return Scaffold(
  appBar: AppBar(title: Text("App Bar"), backgroundColor:
Colors.green,),
  body: Container(
    height: 200,
    child: Row(
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,

```

```

        crossAxisAlignment: CrossAxisAlignment.center,
        children: [
            Column(
                children: [Text("A", style: TextStyle(fontSize: 25,
fontWeight: FontWeight.bold)),
                    Text("B", style: TextStyle(fontSize: 25,fontWeight:
FontWeight.bold)),
                    Text("C", style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold)),
                    Text("D", style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold)),
                    Text("E", style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold)),],
            ),
            Text("A", style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold)),
            Text("B", style: TextStyle(fontSize: 25,fontWeight:
FontWeight.bold)),
            Text("C", style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold)),
            Text("D", style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold)),
            Text("E", style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold)),
            ElevatedButton(onPressed: () { print("Action"); },
child: Text("Click"),
style: TextButton.styleFrom(
backgroundColor: Colors.blue)),],
        ),
    ),
);

```

Scroll_View example

```

return Scaffold(
    appBar: AppBar(title: Text("ScrollView Example"),
backgroundColor: Colors.amberAccent,),
    body: Padding(
        padding: const EdgeInsets.all(8.0),
        child: SingleChildScrollView(
            child: Column(
                children: [
                    Container(
                        height: 200,
                        color: Colors.green,

```

```

        margin: EdgeInsets.only(bottom: 11),
      ),
      Container(
        height: 200,

        color: Colors.amberAccent,
        margin: EdgeInsets.only(bottom: 11),
      ),
      Container(
        height: 200,

        color: Colors.greenAccent,
        margin: EdgeInsets.only(bottom: 11),
      ),
      Container(
        height: 200,

        color: Colors.cyan,
        margin: EdgeInsets.only(bottom: 11),
      ),
      Container(
        height: 200,

        color: Colors.green,
        margin: EdgeInsets.only(bottom: 11),
      ),
      Container(
        height: 200,

        color: Colors.amberAccent,
        margin: EdgeInsets.only(bottom: 11),
      ),
      Container(
        height: 200,
        color: Colors.greenAccent,
        margin: EdgeInsets.only(bottom: 11),
      ),
      Container(
        height: 200,

        color: Colors.cyan,
        margin: EdgeInsets.only(bottom: 11),
      )
    ],
  ),
),
),
),

```

```
)
);
```

Scroll_View example with horizontal scrolling

```
return Scaffold(
  appBar: AppBar(title: Text("ScrollView Example"),
    backgroundColor: Colors.amberAccent,)),
  body: Padding(
    padding: const EdgeInsets.all(8.0),
    child: SingleChildScrollView(
      child: Column(
        children: [
          Padding(
            padding: const EdgeInsets.all(8.0),
            child: SingleChildScrollView(
              scrollDirection: Axis.horizontal,
              child: Row(
                children: [
                  Container(
                    height: 200,
                    width: 200,
                    color: Colors.green,
                    margin: EdgeInsets.only(right: 11),
                  ),
                  Container(
                    height: 200,
                    width: 200,
                    color: Colors.blueAccent,
                    margin: EdgeInsets.only(right: 11),
                  ),
                  Container(
                    height: 200,
                    width: 200,
                    color: Colors.cyan,
                    margin: EdgeInsets.only(right: 11),
                  ),
                  Container(
                    height: 200,
                    width: 200,
                    color: Colors.amberAccent,
                    margin: EdgeInsets.only(right: 11),
                  ),
                ],
              ),
            ),
          ),
        ],
      ),
    ),
  ),
```

```

Container(
  height: 200,

  color: Colors.amberAccent,
  margin: EdgeInsets.only(bottom: 11),
),
Container(
  height: 200,

  color: Colors.greenAccent,
  margin: EdgeInsets.only(bottom: 11),
),
Container(
  height: 200,

  color: Colors.cyan,
  margin: EdgeInsets.only(bottom: 11),
),
Container(
  height: 200,

  color: Colors.green,
  margin: EdgeInsets.only(bottom: 11),
),
Container(
  height: 200,

  color: Colors.amberAccent,
  margin: EdgeInsets.only(bottom: 11),
),
Container(
  height: 200,
  color: Colors.greenAccent,
  margin: EdgeInsets.only(bottom: 11),
),
Container(
  height: 200,

  color: Colors.cyan,
  margin: EdgeInsets.only(bottom: 11),
)
),
),
),
),
);

```

Margin and Padding example:

```
return Scaffold(
  backgroundColor: Colors.cyan[100],
  appBar: AppBar(
    title: Text("Flutter margin Padding"),
    backgroundColor: Colors.blueAccent,
  ),
  body: Container(
    margin: EdgeInsets.only(top: 12, left: 23),
    height: 300,
    width: 300,
    color: Colors.blueGrey,
    child: Padding(
      padding: EdgeInsets.only(top: 12, left: 34),
      child: Center(
        child: Text(
          "Hello Prithibi,,, you are my first text to type in
flutter! ",
          style: TextStyle(
            fontWeight: FontWeight.bold,
            fontSize: 24,
            fontStyle: FontStyle.italic,
            color: Colors.white),
        ),
      ),
    ),
  ),
);
```

ListView Example:

```
Center(
  child: ListView(
    reverse: true,
    scrollDirection: Axis.horizontal,
    children: [
      Padding(
        padding: const EdgeInsets.all(8.0),
        child: Text("One", style: TextStyle(fontWeight:
FontWeight.bold, fontSize: 24)),
      ),
      Padding(
        padding: const EdgeInsets.all(8.0),
        child: Text("Two", style: TextStyle(fontWeight:
FontWeight.bold, fontSize: 24)),
      ),
      Padding(
        padding: const EdgeInsets.all(8.0),
        child: Text("Three", style: TextStyle(fontWeight:
```

```

FontWeight.bold, fontSize: 24)),),
    ),
    Padding(
      padding: const EdgeInsets.all(8.0),
      child: Text("Four", style: TextStyle(fontWeight:
FontWeight.bold, fontSize: 24)),),
    ),
    Padding(
      padding: const EdgeInsets.all(8.0),
      child: Text("Five", style: TextStyle(fontWeight:
FontWeight.bold, fontSize: 24)),),
    )
  ],
),
),
);

```

ListView.builder Example

```

var arrNames= ['One','Two','Three','Four','Five'];

ListView.builder(itemBuilder:(context, index) {
  return Container(
    height: 200,
    margin: EdgeInsets.only(bottom: 20),
    color: Colors.purpleAccent[100],
    child: Center(child: Text(arrNames[index],style:
TextStyle(fontWeight: FontWeight.bold, fontSize: 24))));
},
  itemCount: arrNames.length,
  //scrollDirection: Axis.horizontal,
),

```

ListView.separated Example:

```

ListView.separated(itemBuilder:(context, index) {
  return Center(child: Text(arrNames[index],style:
TextStyle(fontWeight: FontWeight.bold, fontSize: 24))));
},
  itemCount: arrNames.length,
  separatorBuilder: (context,index)
  {
    return Divider(height:100 , thickness: 4,);
  }
)

```



```

    },
    //scrollDirection: Axis.horizontal,
  ),
);

```

List Tile Example:

```

class MyHomePage extends StatelessWidget {
  MyHomePage({super.key});
  var arrNames = ['One', 'Two', 'Three', 'Four',
'Five', 'six', 'seven', 'eight'];
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("List View Example"),
        backgroundColor: Colors.black54,
      ),
      backgroundColor: Colors.greenAccent[100],
      body: ListView.separated(
        itemBuilder: (context, index) {
          return ListTile(
            leading: Text('$index') ,
            title: Text(arrNames[index]),
            subtitle: Text("Subtitile") ,
            trailing: Icon(Icons.add),
          );
        },
        itemCount: arrNames.length,
        separatorBuilder: (context, index) {
          return Divider(
            height: 50,
            thickness: 4,
          );
        },
        //scrollDirection: Axis.horizontal,
      ),
    );
  }
}

```

Bottom Navigation Example:

```

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key});
  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

```

```

class _MyHomePageState extends State<MyHomePage> {
  var tabs=[
    Center(child: Text("Home")),
    Center(child: Text("camera")),
    Center(child: Text("search")),
    Center(child: Text("Profile")),
  ];

  List<Widget> widgetList=[
    /* screen1(),
    screen2(),
    screen3(),
    screen4()
  ];*/

  int _currentIndex= 0;
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text("Bottom Navigation Bar")),
      body: tabs[_currentIndex],
      backgroundColor: Colors.purpleAccent[100],
      bottomNavigationBar: BottomNavigationBar(
        type: BottomNavigationBarType.fixed,
        backgroundColor: Colors.green[100],
        iconSize: 30,
        currentIndex: _currentIndex,
        items: [
          BottomNavigationBarItem(
            icon: Icon(Icons.home),
            label: "Home",
            backgroundColor: Colors.lightBlue ),
          BottomNavigationBarItem(
            icon: Icon(Icons.search),
            label: "Search",
            backgroundColor: Colors.redAccent ),
          BottomNavigationBarItem(
            icon: Icon(Icons.camera),
            label: "Camera",
            backgroundColor: Colors.greenAccent),
          BottomNavigationBarItem(
            icon: Icon(Icons.person),
            label: "Profile",
            backgroundColor: Colors.yellowAccent),
        ],
        onTap: (index)
        {

```

```

        setState(() {
          _currentIndex= index;
        });
      },
    ),
  );
}
}

```

Flutter Switching from one screen to another example:

```

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

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.blueGrey,
      appBar: AppBar(title: Text("Hello PAge")),
      body: Text("Hello Students"),
    );
  }
}

```

Introhome page

```

class introPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("introPage"),
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          crossAxisAlignment: CrossAxisAlignment.center,
          children: [
            Text(
              "Welcome",
              style: TextStyle(
                fontWeight: FontWeight.bold,
                fontSize: 24,
                color: Colors.blueGrey),
            ),
            SizedBox( height: 10,),

```

```

        ElevatedButton(onPressed: ()
        {
            Navigator.push(context,
MaterialPageRoute(builder: (context) {
                return MyHomePage();
            }));
        }, child: Text("Next"),
        style: ElevatedButton.styleFrom(backgroundColor:
Colors.orange),
        )
    ],
    ),
),
);
}
}

```

Passing Data form one page to another

MyHomePage

```

class MyHomePage extends StatelessWidget{
    var nameFromHome;
    MyHomePage(this.nameFromHome);

    @override
    Widget build(BuildContext context) {
        return Scaffold(
            backgroundColor: Colors.blueGrey,
            appBar: AppBar(title: Text("Hello PAge"),),
            body: Center(
                child: Column(
                    mainAxisAlignment: MainAxisAlignment.center,
                    //crossAxisAlignment: CrossAxisAlignment.center,
                    children: [
                        Text("Welcome, $nameFromHome", style: TextStyle(color:
Colors.white, fontSize: 25, fontWeight: FontWeight.bold),),
                        ElevatedButton(onPressed: ()
                        {
                            }, child: Text("Click Here"),
                            style: ElevatedButton.styleFrom(backgroundColor:
Colors.blue),
                        ),
                    ],
                ),
            ),
        );
    }
}

```

```

    }
}

```

IntroPage:

```

class IntroPage extends StatelessWidget {
  var inputName= TextEditingController();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("IntroPage"),
      ),
      body: Center(
        child: Container(
          width: 300,
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            crossAxisAlignment: CrossAxisAlignment.center,
            children: [
              Text(
                "Welcome",
                style: TextStyle(
                  fontWeight: FontWeight.bold,
                  fontSize: 24,
                  color: Colors.blueGrey),
              ),
              SizedBox( height: 10, ),
              Padding(
                padding: const EdgeInsets.only(bottom: 50),
                child: TextField(
                  controller: inputName,
                ),
              ),
              ElevatedButton(onPressed: () {
                Navigator.push(context,
                  MaterialPageRoute(builder: (context) {
                    return
                      MyHomePage(inputName.text.toString());
                  })),
                child: Text("Next"),
                style: ElevatedButton.styleFrom(backgroundColor:
                  Colors.orange),
              ),
            ],
          ),
        ),
      ),
    );
  }
}

```

```

    ),
  ),
),
);
}
}

```

Creating a Form:

```

class HomeActivity extends StatelessWidget
{

  var emailText = TextEditingController();
  var passText= TextEditingController();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.cyan[100],
      appBar: AppBar(title: Text("Text Input
Example"),backgroundColor: Colors.blueAccent,),
      body:Center(
        child: Container(
          width:300,
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              TextField(
                controller: emailText,
                decoration: InputDecoration(
                  hintText: "Enter Email",
                  suffixIcon: Icon(Icons.remove_red_eye, color:
Colors.blue,),
                  prefixIcon: Icon(Icons.email,color:
Colors.orange,),
                  focusedBorder: OutlineInputBorder(
                    borderRadius: BorderRadius.circular(22),
                    borderSide: BorderSide(color:
Colors.amberAccent, width: 3)
                  ),
                  enabledBorder: OutlineInputBorder(
                    borderRadius: BorderRadius.circular(22),
                    borderSide: BorderSide(color: Colors.blue)
                  )
                ),
              Container(height: 10,),
              TextField(
                obscureText: true,

```

```

        obscuringCharacter: "*",
        controller: passText,
        decoration: InputDecoration(
            border: OutlineInputBorder(
                borderRadius: BorderRadius.circular(22)
            )
        ),
    ),
    Container(height: 10,),
    ElevatedButton(onPressed: ()
    {
        String umail= emailText.text.toString();
        String uPass= passText.text.toString();
        print("Email: $umail , Pass : $uPass");
    }, child: Text("Log In "))
  ],
),
);
}
}

```

BEST OF LUCK

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