

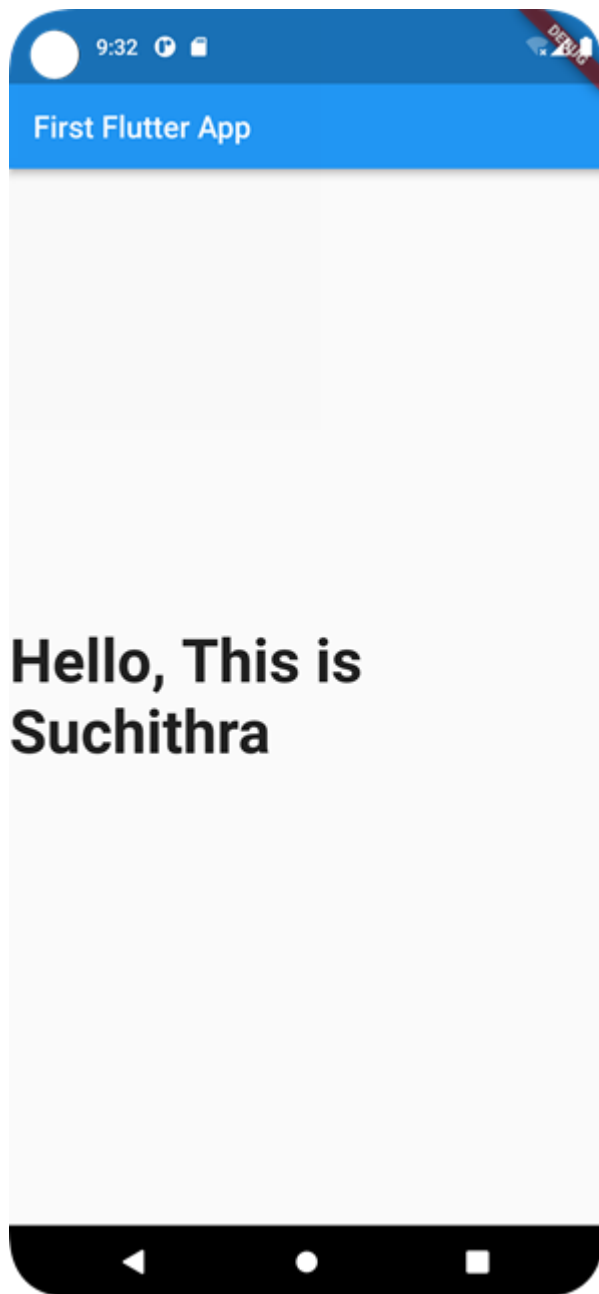
Name: Suchithra Raj M
USN: 1NT19IS162

FLUTTER BASICS

```
import 'package:flutter/cupertino.dart';  
  
import 'package:flutter/material.dart';  
  
void main() {  
  runApp(  
    MaterialApp(  
      home: Scaffold(  
        appBar: AppBar(  
          title: Text("First Flutter App"),  
        ),  
        body: Center(  
          child: Text(  
            "Hello, This is Suchithra",  
            style: TextStyle(  
              fontSize: 40.0,  
              fontStyle: FontStyle.normal,  
              fontWeight: FontWeight.bold  
            ),  
          ),  
        ),  
      ),  
    );  
  );  
};
```

```
}
```

OUTPUT:

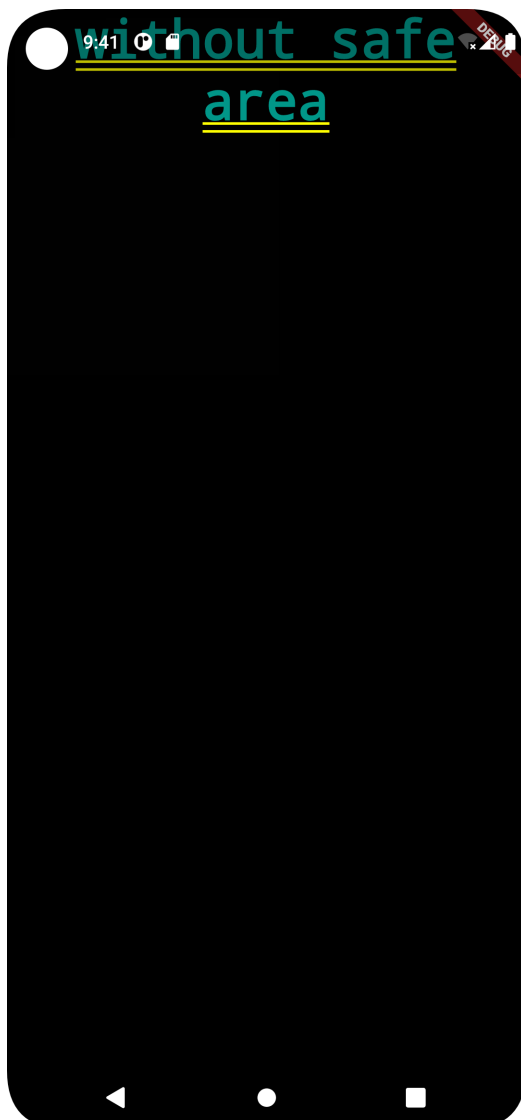


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1. Without safearea

```
import 'package:flutter/cupertino.dart';  
import 'package:flutter/material.dart';  
  
void main() {  
  runApp(MaterialApp(  
    home: Text("without safe area",  
    textAlign: TextAlign.center,  
    style: TextStyle(  
      fontSize: 40.0,  
      fontWeight: FontWeight.bold,  
      color: Colors.teal,  
    ),  
  ),  
);  
}
```

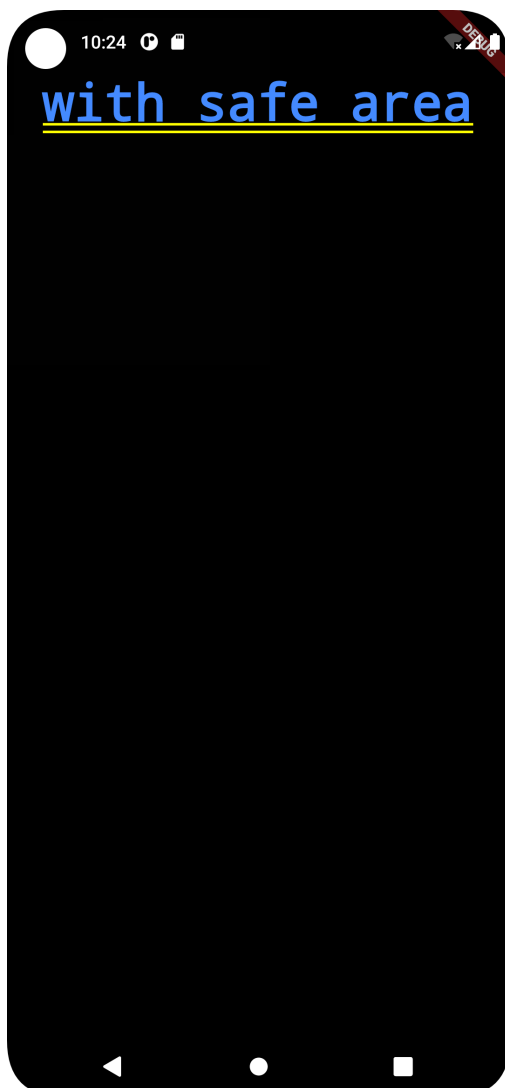
OUTPUT:



2. With safearea

```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home: SafeArea(
      child: Text("with safe area",
        textAlign: TextAlign.center,
        style: TextStyle(
          fontSize: 40.0,
          fontWeight: FontWeight.bold,
          color: Colors.blueAccent,
        ),
      ),
    ),
  ));
}
```

OUTPUT:



3. With scaffold

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

void main() {
  runApp(MaterialApp(
    home: Scaffold(
      appBar: AppBar(
        title: Text(
          "FLUTTER APP"
        ),
      ),
      body: Center(
        child: Text(
          "SHOWING USAGE OF SCAFFOLD",
          style: TextStyle(
            fontSize: 40,
            fontStyle: FontStyle.italic,
            fontWeight: FontWeight.normal,
            color: Colors.red,
          ),
        ),
      ),
    ),
  ));
}
```

OUTPUT:



4. Combination of scaffold and safearea

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

void main() {
  runApp(MaterialApp(
    home: Scaffold(
      appBar: AppBar(
        title: Text(
          "SCAFFOLD-SAFEAREA"
        ),
      ),
      body: Container(
        child: SafeArea(
          child: Center(
            child: Text(
              "COMBINATION OF SCAFFOLD AND SAFE AREA",
              style: TextStyle(
                fontSize: 40,
                fontStyle: FontStyle.italic,
                fontWeight: FontWeight.normal,
                color: Colors.cyan,
              ),
            ),
          ),
        ),
      ),
    ),
  ));
}
```

OUTPUT:



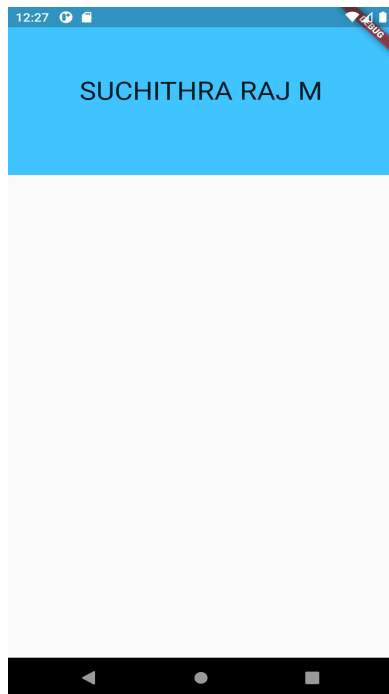
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SINGLE CHILD WIDGET

1. CONTAINER WIDGET

```
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home: MyPage(),
  ));
}
class MyPage extends StatefulWidget {
  const MyPage({Key? key}) : super(key: key);
  @override
  _MyPageState createState() => _MyPageState();
}
class _MyPageState extends State<MyPage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Container(
        height: 200.0,
        width: double.infinity,
        color: Colors.lightBlueAccent,
        child: Center(
          child: Text(
            'SUCHITHRA RAJ M',
            style: TextStyle(color: Colors.black87, fontSize: 30),
          ),
        ),
      ),
    );
  }
}
```

OUTPUT:



2. CENTER WIDGET

```
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home: MyPage(),
  ));
}
class MyPage extends StatefulWidget {
  const MyPage({Key? key}) : super(key: key);
  @override
  _MyPageState createState() => _MyPageState();
}
class _MyPageState extends State<MyPage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(

        child: Text(
          'TED BUNTY',
          style: TextStyle(color: Colors.red, fontSize: 30),
        ),
      ),
    );
  }
}
```



```
    ),  
    );  
}  
}
```

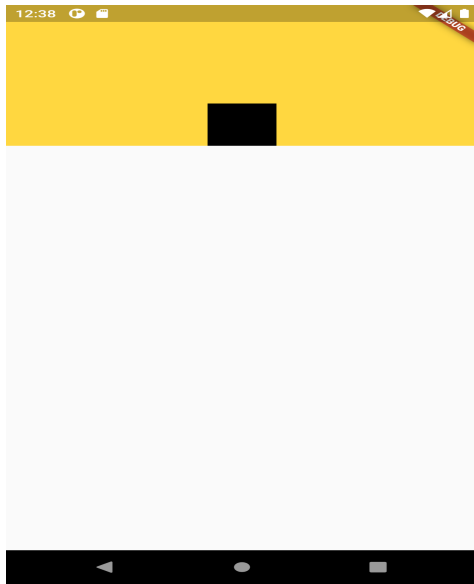
OUTPUT:



3. ALIGN WIDGET

```
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home: MyPage(),
  ));
}
class MyPage extends StatefulWidget {
  const MyPage({Key? key}) : super(key: key);
  @override
  _MyPageState createState() => _MyPageState();
}
class _MyPageState extends State<MyPage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Container(
        height: 200.0,
        width: double.infinity,
        color: Colors.amberAccent,
        child: Align(
          alignment: Alignment.bottomCenter,
          child: Container(
            height: 60.0,
            width: 60.0,
            color: Colors.black,
          ),
        ),
      ),
    );
  }
}
```

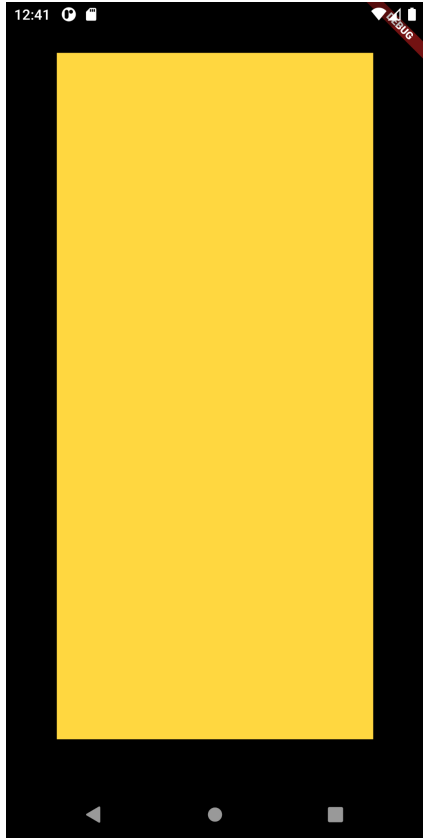
OUTPUT:



4. PADDING WIDGET

```
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home: MyPage(),
  ));
}
class MyPage extends StatefulWidget {
  const MyPage({Key? key}) : super(key: key);
  @override
  _MyPageState createState() => _MyPageState();
}
class _MyPageState extends State<MyPage> {
  @override
  Widget build(BuildContext context) {
    return Padding(
      padding: const EdgeInsets.all(50.0),
      child: Container(
        height: 100.0,
        width: double.infinity,
        color: Colors.amberAccent,
      ),
    );
  }
}
```

OUTPUT:



5a) Build a utter app to demonstrate the usage of Row Widget and Experiment with its MainAxis and CrossAxis properties respectively

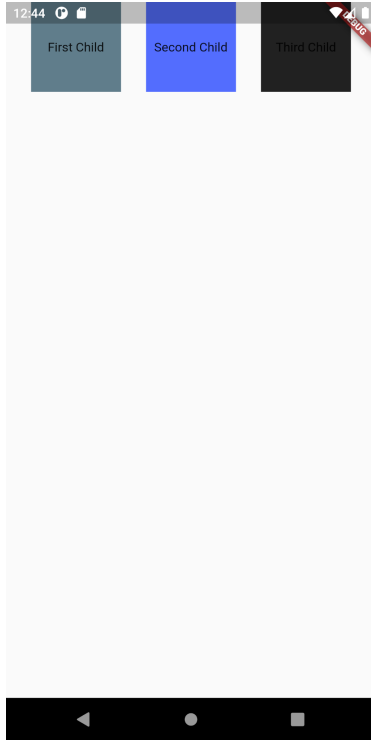
```
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home: RowApp(),
  ));
}
class RowApp extends StatelessWidget {
  const RowApp({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        crossAxisAlignment: CrossAxisAlignment.start,
        children:[
          Container(
            height: 100,
            width: 100,
```

```

        color: Colors.blueGrey,
        child: Center(
          child: Text(
            'First Child'
          ),
        ),
      ),
      Container(
        height: 100,
        width: 100,
        color: Colors.indigoAccent,
        child: Center(
          child: Text(
            'Second Child'
          ),
        ),
      ),
      Container(
        height: 100,
        width: 100,
        color: Colors.black87,
        child: Center(
          child: Text(
            'Third Child'
          ),
        ),
      ),
    ],
  ),
);
}
}

```

OUTPUT:



5b) Build a utter app to demonstrate the usage of Column Widget and Experiment with its MainAxis and CrossAxis properties respectively.

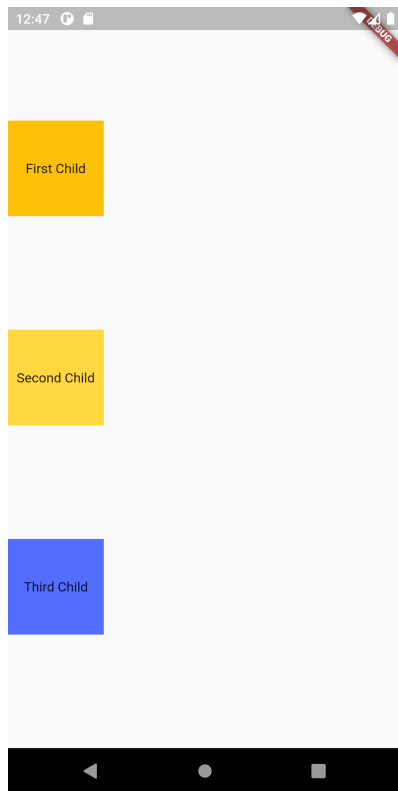
```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home: ColumnApp(),
  ));
}
class ColumnApp extends StatelessWidget {
  const ColumnApp({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Column(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Container(
            height: 100,
            width: 100,
            color: Colors.amber,
            child: Center(
```

```

        child: Text(
          'First Child'
        ),
      ),
    ),
    Container(
      height: 100,
      width: 100,
      color: Colors.amberAccent,
      child: Center(
        child: Text(
          'Second Child'
        ),
      ),
    ),
    Container(
      height: 100,
      width: 100,
      color: Colors.indigoAccent,
      child: Center(
        child: Text(
          'Third Child'
        ),
      ),
    ),
  ],
);
}
}

```

OUTPUT:



6.Diagonal

```
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false,
    home: SafeArea(
      child: ColumnApp(),
    ),
  ));
}
class ColumnApp extends StatefulWidget {
  const ColumnApp({Key? key}) : super(key: key);
  @override
  _ColumnAppState createState() => _ColumnAppState();
}
class _ColumnAppState extends State<ColumnApp> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Row(
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children:[
```



```

Column(
  mainAxisAlignment: MainAxisAlignment.start,
  children:[Container(
    height: 100,
    width: 100,
    color: Colors.indigoAccent,
    child: Center(
      child: Text(
        'First Child'
      ),
    ),
  ),
],
),
Column(
  mainAxisAlignment: MainAxisAlignment.center,
  children: [Container(
    height: 100,
    width: 100,
    color: Colors.amberAccent,
    child: Center(
      child: Text(
        'Second Child'
      ),
    ),
  ),
],
),
Column(
  mainAxisAlignment: MainAxisAlignment.end,
  children:[Container(
    height: 100,
    width: 100,
    color: Colors.amber,
    child: Center(
      child: Text(
        'Third Child'
      ),
    ),
  ),
],
),
],
);
}
}

```

OUTPUT:

