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**HAD Lab**  
**Flutter:Single/Multi child widgets**

## **main.dart**

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

void main() {
  runApp(MaterialApp(
    home: Scaffold(
      body: Container(
        height: 200.0, // 200 logical pixel - depends on Device
        width: double.infinity, // expand to the width of screen
        color: Colors.blue, // Color attribute for the container
        child: Center( // Container -> child(Center->child(Text))
          child: Text(
            'Hello World',
            style: TextStyle(color: Colors.white, fontSize: 30),
          ),
        ),
      ),
    ),
  ));
}
```

## OUTPUT:



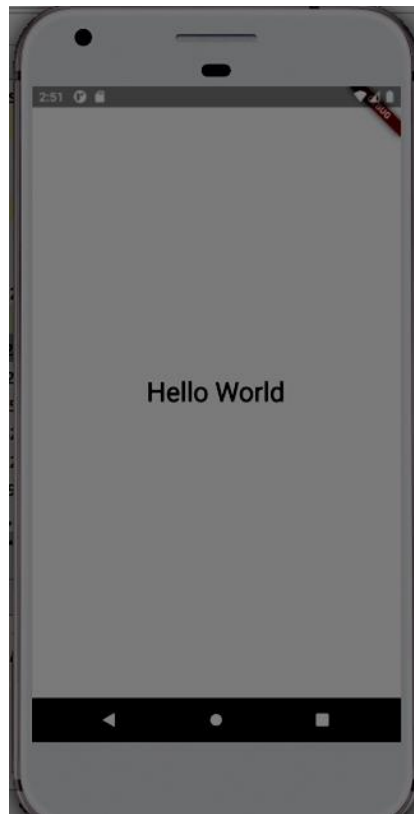
Center

main.dart

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

void main() {
  runApp(MaterialApp(
    home: Scaffold(
      body: Center(
        child: Text(
          'Hello World',
          style: TextStyle(color: Colors.black, fontSize: 30),
        ),
      ),
    ),
  ));
}
```

## OUTPUT



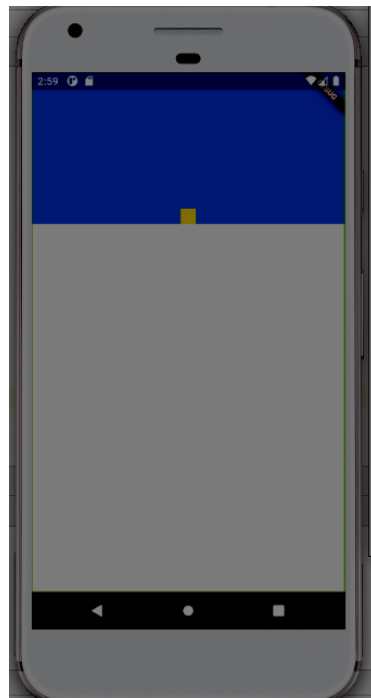
### Align widget:

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

void main() {
  runApp(MaterialApp(
    home: Scaffold(
      body: Container(
        height: 200.0,
        width: double.infinity,
        color: Colors.blue, // Color attribute for the outer container
        child: Align(
          alignment: Alignment.bottomCenter,
          child: Container( // inner container
            height: 20.0,
            width: 20.0,
            color: Colors.yellow, // Color attribute for the inner container
          ),
        ),
      ),
    ),
  ),
```

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

## OUTPUT:



## Padding widget:

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

```
void main() {  
  runApp(MaterialApp(  
    home: Padding(  
      padding: const EdgeInsets.all(20.0), // puts 20 dp padding from all  
      sides  
      // try setting the EdgeInsets to other functions as well  
      child: Container(  
        height: 200.0,  
        width: double.infinity,  
        color: Colors.blue,  
      ),  
    ),  
  )  
}
```

```
),  
);  
}
```

## OUTPUT:



## Exercise\_1

### MAIN.DART

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

```

```

body:Row(
  mainAxisAlignment: MainAxisAlignment.spaceEvenly,
  crossAxisAlignment: CrossAxisAlignment.start,
  children:[
    Container(
      height: 100,
      width: 100,
      color: Colors.yellow,
      child: Center(
        child: Text(
          'First Child'
        ),
      ),
    ),
  ],
);
}

```

## OUTPUT:



## EXERCISE-2,3

### ROW

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

void main() {
  runApp(MaterialApp(
    home: RowApp(),
  ));
}

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

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

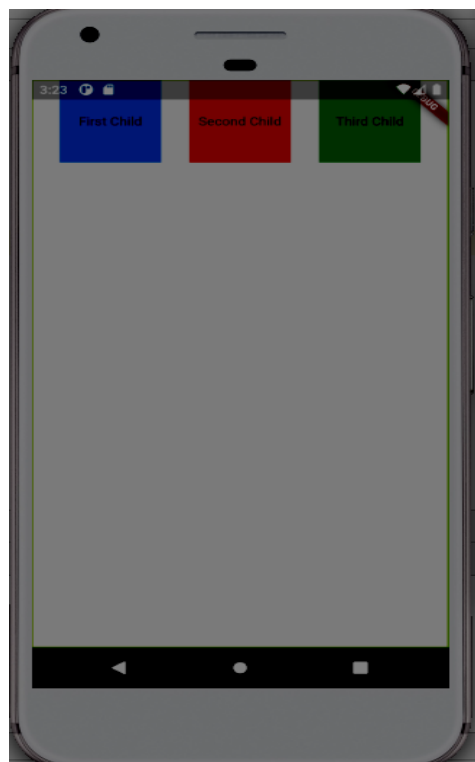
class _RowAppState extends State<RowApp> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Container(
            height: 100,
            width: 100,
            color: Colors.blue,
            child: Center(
              child: Text(
                'First Child'
              ),
            ),
          ),
          Container(
            height: 100,
            width: 100,
```

```

        color: Colors.red, // change the color to red and green for other two
        child: Center(
          child: Text(
            'Second Child'
          ),
        ),
      ),
    Container(
      height: 100,
      width: 100,
      color: Colors.green, // change the color to red and green for other
two
      child: Center(
        child: Text(
          'Third Child'
        ),
      ),
    ),
  ],
)
);
}
}

```

**OUTPUT:**





## COLUMN

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

void main() {
  runApp(MaterialApp(
    home: ColumnApp(),
  ));
}

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

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

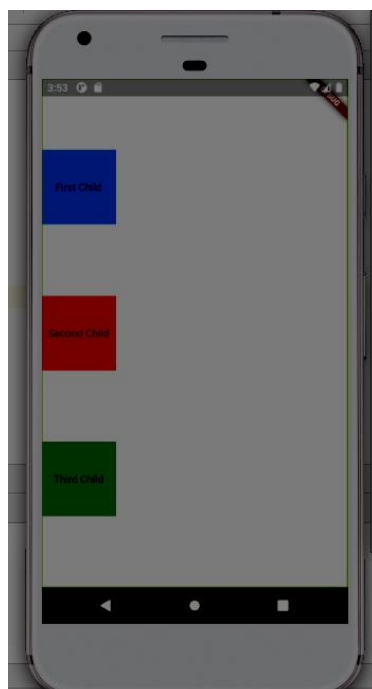
class _ColumnAppState extends State<ColumnApp> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Column(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Container(
            height: 100,
            width: 100,
            color: Colors.blue,
            child: Center(
              child: Text(
                'First Child'
              ),
            ),
          ),
          Container(
            height: 100,
            width: 100,
            color: Colors.red, // change the color to red and green for other two
            child: Center(
              child: Text(
```

```

    'Second Child'
  ),
),
),
Container(
  height: 100,
  width: 100,
  color: Colors.green, // change the color to red and green for other two
  child: Center(
    child: Text(
      'Third Child'
    ),
  ),
),
],
)
);
}
}

```

**OUTPUT:**



## TO-DO EXERCISE:

```
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.red,
              child: Center(
                child: Text(
                  'First Child'
                ),
              ),
            ),
          ],
        ),
      ),
    );
  }
}
```

```

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

```

**OUTPUT:**

