```
Without Safe Area
void main() {
  runApp(MaterialApp(
    home: Text("This is a Test",
      style: TextStyle(
        fontSize: 40,
        fontWeight: FontWeight.bold
  ),
 ),
  );
With Safe Area
void main() {
  runApp (MaterialApp (
   home: SafeArea(
      child: Text("This is a Test",
        style: TextStyle(
          fontSize: 40,
          fontWeight: FontWeight.bold
        ),
  ),
   ),
  ),
 );
}
```

Scaffold

```
void main() {
  runApp(MaterialApp(
    home: Scaffold(
      appBar: AppBar(
        title: Text("Android",
        ),
      ),
      body: Center(
        child: Text("This is a sample Test",
        style: TextStyle(
          fontSize: 40,
        ),
        ),
     ),
   ),
 ),
 );
```

```
void main() {
  runApp(MaterialApp(
    home: Scaffold(
      appBar: AppBar(
       title: Text("hello"),
      body: Rowpage(),
    ),
  ));
class Rowpage extends StatefulWidget {
  const Rowpage({super.key});
  @override
  State<Rowpage> createState() => _RowpageState();
class _RowpageState extends State<Rowpage> {
  @override
  Widget build(BuildContext context) {
    return Row(
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
      children: [
        Column (
          mainAxisAlignment: MainAxisAlignment.start,
          children: [
            Container (
              height: 100,
              width: 100,
              color: Colors.blue,
              child: Center(
                child: Text("First Child"),
              ),
            ),
          ],
        ),
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            Container (
              height: 100,
              width: 100,
              color: Colors.green,
              child: Center(
                child: Text("First Child"),
              ),
            ),
          ],
        ),
        Column (
          mainAxisAlignment: MainAxisAlignment.end,
          children: [
            Container (
              height: 100,
              width: 100,
              color: Colors.red,
              child: Center(
                child: Text("First Child"),
```

```
),
),
),
),
```

Dice

```
void main() {
  runApp (MaterialApp (
      home:Scaffold(
        appBar: AppBar(
          title: Text("Hello"
          ),
        ),
        body: Diecepage(),
      )
 ));
class Diecepage extends StatefulWidget {
  const Diecepage({super.key});
  @override
  State<Diecepage> createState() => _DiecepageState();
class DiecepageState extends State<Diecepage> {
 int left=1;
 int right=2;
 void change() {
    setState(() {
     left=Random().nextInt(6)+1;
      right=Random().nextInt(6)+1;
    });
  @override
  Widget build(BuildContext context) {
    return Center (
      child: Container(
        child: Row(
          children: [
            Expanded (
              flex: 1,
              child: TextButton(
                style: TextButton.styleFrom(
                  backgroundColor: Colors.blue
                ),
                child: Image.asset('images/dice$left.png'),
                onPressed: () {
                  change();
                },
              ),
            ),
```

```
Expanded (
              flex: 1,
              child: TextButton(
                style: TextButton.styleFrom(
                    backgroundColor: Colors.blue
                child: Image.asset('images/dice$right.png'),
                onPressed: () {
                  change();
  ),
),
),
                },
 }
Xylo Phone
import 'package:assets audio player/assets audio player.dart';
import 'package:flutter/material.dart';
void main() {
  runApp (MaterialApp (
    home: Scaffold(
      appBar: AppBar(
       title: Text('XYLOPHONE'),
       centerTitle: true,
      ),
      body: XyloPage(),
    ),
  ));
}
class XyloPage extends StatefulWidget {
  const XyloPage({super.key});
  State<XyloPage> createState() => XyloPageState();
}
class XyloPageState extends State<XyloPage> {
  void playSound(int noteNumber) {
    AssetsAudioPlayer.newPlayer().open(
      Audio('assets/note$noteNumber.wav'),
      autoStart: true,
      showNotification: true,
    );
  @override
  Widget build(BuildContext context) {
    return Column (
      crossAxisAlignment: CrossAxisAlignment.stretch,
      children: [
        Expanded(child: TextButton(
          style: TextButton.styleFrom(
              backgroundColor: Colors.amberAccent
```

```
),
          onPressed: () {
            playSound(1);
          child: Text('first'),
        ),
        ),
        Expanded(child: TextButton(
          style: TextButton.styleFrom(
              backgroundColor: Colors.brown
          onPressed: () {
           playSound(2);
          child: Text('second'),
        ),
        ),
        Expanded(child: TextButton(
          style: TextButton.styleFrom(
              backgroundColor: Colors.yellow
          onPressed: () {
           playSound(3);
          },
          child: Text('third'),
        ),
        ),
        Expanded(child: TextButton(
          style: TextButton.styleFrom(
              backgroundColor: Colors.green
          onPressed: () {
            playSound(4);
          } ,
          child: Text('four'),
        ),
        ),
     ],
   );
  }
}
Quiz App
import 'package:flutter/material.dart';
void main() {
  runApp (MaterialApp (
    home: Scaffold(
      appBar: AppBar(title: Text('QUIZ'), centerTitle: true,),
     body: QuizPage(),
    ),
  ));
class QuizPage extends StatefulWidget {
  const QuizPage({super.key});
  @override
  State<QuizPage> createState() => _QuizPageState();
```

```
class Question{
 final String qText;
 final bool qAns;
  Question({required this.qText, required this.qAns});
class Questions{
  List<Question> questionBank = [
    Question(qText: "Question1", qAns: true),
Question(qText: "Question2", qAns: false),
    Question(qText: "Question3", qAns: true),
 ];
class QuizPageState extends State<QuizPage> {
  int questionNumber = 0; // stores the questionNumber, default = first
  int currentScore = 0; // final score initialized to 0
 Questions questions = Questions(); // Create an object of the Question
Class
 void updateQuestionNumber() {
    setState(() {
     questionNumber = questionNumber + 1; // Increments the Question
Number
     print('$questionNumber');
   });
 bool checkquestionNumber(int questionNumber) {
    return questionNumber < questions.questionBank.length ? true : false;
 void udpateCurrentScore(bool choice, int question number) {
// based on the choice (T/F button) score will be updated
    if (questions.questionBank.length == question number) {
      print("End of questions");
    } else {
// checks the current user input against the list answer, if true
increments the count
      if (questions.questionBank[question number].qAns == choice) {
        setState(() {
          currentScore++;
        });
      }
    }
  }
  @override
  Widget build(BuildContext context) {
    return Container (
      child: Column (
        crossAxisAlignment: CrossAxisAlignment.stretch,
        children: [
          Padding (
            padding: const EdgeInsets.only(top: 10.0),
            child: Center(
              child: Text(
                checkquestionNumber(questionNumber)?
                questions.questionBank[questionNumber].
                qText.toString():"END",
                style: TextStyle(
                  fontSize: 25.0,
```

```
),
          ),
          SizedBox(height: 60.0,),
          if (checkquestionNumber(questionNumber))
            ElevatedButton(
              child: Text('True'),
              onPressed: () {
                setState(() {
                   if(questionNumber == questions.questionBank.length) {
                    print('End of Questions');
                   }else{
                    udpateCurrentScore(true, questionNumber);
                     updateQuestionNumber();
                });
              },
            ),
          SizedBox(height: 20.0,),
          if (checkquestionNumber(questionNumber))
            ElevatedButton(
              child: Text('False'),
              onPressed: () {
                setState(() {
                  if(questionNumber == questions.questionBank.length){
                    print('End of Questions');
                   }else{
                    udpateCurrentScore(false, questionNumber);
                     updateQuestionNumber();
                });
              },
            ),
          SizedBox(height: 100.0,),
          Padding (
            padding: EdgeInsets.all(30.0),
            child: Center(
              child: Text(
                'Your current Score',
                style: TextStyle(fontSize: 30.0),
              ),
            ),
          ),
          Padding (
            padding: EdgeInsets.all(30.0),
            child: Center(
              child: Text(
                 '$currentScore',
                style: TextStyle(fontSize: 30.0),
              ),
           ),
);
);
}
         ),
}
```

),),