XYLOPHONE

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


void main() {
  runApp(MaterialApp(
    home: Scaffold(
      appBar: AppBar(title: Text('XYLOPHONE170'),
        centerTitle: true,
      ),
      body: Xylo(),
    ),
  ));
}

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

  @override
  State<Xylo> createState() => _XyloState();
}

class _XyloState extends State<Xylo> {

  void playsound(int i)
  {
    final player = AudioCache();
    player.play("note$i.wav");
  }

  @override
  Widget build(BuildContext context) {
    return Column(
      crossAxisAlignment: CrossAxisAlignment.stretch,
      children: [
        Expanded(child: TextButton(
          style: TextButton.styleFrom(backgroundColor: Colors.red),
          onPressed: ()
          {
            playsound(1);
          },
          child: Text('First'),
        ),
        ),

        Expanded(child: TextButton(
          style: TextButton.styleFrom(backgroundColor: Colors.red),
          onPressed: ()
          {
            playsound(2);
          },
          child: Text('Second'),
        ),
        ),

        Expanded(child: TextButton(
          style: TextButton.styleFrom(backgroundColor: Colors.red),
```

```
          onPressed: ()
          {
            playsound(3);
          },
          child: Text('Third'),
        ),
        ),

        Expanded(child: TextButton(
          style: TextButton.styleFrom(backgroundColor: Colors.red),
          onPressed: ()
          {
            playsound(4);
          },
          child: Text('Fourth'),
        ),
        ),

        Expanded(child: TextButton(
          style: TextButton.styleFrom(backgroundColor: Colors.red),
          onPressed: ()
          {
            playsound(5);
          },
          child: Text('Fifth'),
        ),
        ),

        Expanded(child: TextButton(
          style: TextButton.styleFrom(backgroundColor: Colors.red),
          onPressed: ()
          {
            playsound(6);
          },
          child: Text('Sixth'),
        ),
        ),

        Expanded(child: TextButton(
          style: TextButton.styleFrom(backgroundColor: Colors.red),
          onPressed: ()
          {
            playsound(7);
          },
          child: Text('Seven'),
        ),
        ),


      ],

    );
  }
}
```

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

```
void main() {
  runApp(MaterialApp(
      home:Scaffold(
        appBar: AppBar(title: Text('XYLOPHONE'),centerTitle: true,),
        body:XyloPage(),
      )
  ));
}

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

  @override
  State<XyloPage> createState() => _XyloPageState();
}

class _XyloPageState extends State<XyloPage> {

  void PlayAudio(int i) async
  {
    AudioPlayer player=AudioPlayer();
    String audioAsset='asstes/note$i.wav';
    ByteData bytes =await rootBundle.load(audioAsset);
    Uint8List audiobytes
=bytes.buffer.asUint8List(bytes.offsetInBytes,bytes.lengthInBytes);
    int result=await player.playBytes(audiobytes);

    if(result==1)
    {
      print("audio playing");
    }
    else
      {
        print("error in playing");

      }
  }
  @override
  Widget build(BuildContext context) {
    return Column(
        crossAxisAlignment: CrossAxisAlignment.stretch,
    children: [
    Expanded(
    child: TextButton(
             style: TextButton.styleFrom(
             backgroundColor: Colors.amber
    ),
    onPressed: ()
    {
    PlayAudio(1);
    },
    child: Text('First'),
    ),
    ),


    Expanded(
    child: TextButton(
    style: TextButton.styleFrom(
    backgroundColor: Colors.cyanAccent
    ),
```

```
onPressed: ()
{
PlayAudio(2);
},
child: Text('Second'),
),
),


Expanded(
child: TextButton(
style: TextButton.styleFrom(
backgroundColor: Colors.amber
),
onPressed: ()
{
PlayAudio(3);
},
child: Text('Third'),
),
),

Expanded(
child: TextButton(
style: TextButton.styleFrom(
backgroundColor: Colors.amber
),
onPressed: ()
{
PlayAudio(4);
},
child: Text('Fourth'),
),
),


Expanded(
child: TextButton(
style: TextButton.styleFrom(
backgroundColor: Colors.amber
),
onPressed: ()
{
PlayAudio(5);
},
child: Text('Fifth'),
),
),



Expanded(
child: TextButton(
style: TextButton.styleFrom(
backgroundColor: Colors.amber
),
onPressed: ()
{
PlayAudio(6);
},
child: Text('Sixth'),
```

```
    ),
    ),

    Expanded(
    child: TextButton(
    style: TextButton.styleFrom(
    backgroundColor: Colors.amber
    ),
    onPressed: ()
    {
    PlayAudio(7);
    },
    child: Text('Seventh'),
    ),
    ),
],
    );
  }
}
```

ROW WIDGET

```
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.red,
            child: Center(
              child: Text(
                  'First child'
              ),
            ),

          ),
          Container(
              height: 100,
              width: 100,
              color: Colors.yellow,
```

```
              child: Center(
                child: Text(
                    'Second child'
                ),
              ),

          ),
          Container(
              height: 100,
              width: 100,
              color: Colors.red,
              child: Center(
                child: Text(
                    'Third child'
                ),
              ),

          )
        ],
      )
    );
  }
}
```

DICE APP

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


import 'dart:math';
void main() {
  runApp(MaterialApp(
    home: Scaffold(
      appBar: AppBar(title: Text('SUSHMITHA DICE APP'), centerTitle:
      true,),
      body: DicePage(),
    ),
  ));
}
class DicePage extends StatefulWidget {
  const DicePage({Key? key}) : super(key: key);
  @override
  _DicePageState createState() => _DicePageState();
}
class _DicePageState extends State<DicePage>{
  int left = 1;
  int right = 2;
  void changeFace() {
    setState(() {
      left = Random().nextInt(6) + 1;
      right = Random().nextInt(6) + 1;
    });
  }
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return Center(
```

```
      child: Container(
        child: Row(
          children: [
            Expanded(
              flex: 1,
              child: TextButton(
                style: TextButton.styleFrom(
                  backgroundColor: Colors.deepOrange,
                ),
                child: Image.asset('images/dice$left.png'),
                onPressed: () {
                  changeFace();
                },
              ),
            ),
            Expanded(
              flex: 1,
              child: TextButton(
                style: TextButton.styleFrom(
                  backgroundColor: Colors.deepOrange,
                ),
                child: Image.asset('images/dice$right.png'),
                onPressed: () {
                  changeFace();
                },
              ),
            ),
          ],
        ),
      ),
    ); // Building the body widget tree
  }
}
```

QUIZ APP

```
import 'package:flutter/material.dart';
void main() {
  runApp(MaterialApp(
    home:SafeArea(
      child: Scaffold(
        body:QuizPage(),
      ),
    ),
  ));
} class
Question {
  final String questionText; // Question
  final bool answer; // Answer
  Question({required this.questionText, required this.answer});
// making it as named arguments for the Question Constructor
}
class Questions {
  List<Question> questionBank = [ // create a list of Questions using
default
    Question(questionText: "Lightning never hits the same place twice",
answer: false),
    Question(questionText: "A snail can sleep for up to 3 months", answer:
true),
```

```
    Question(questionText: "Walt Disney holds the record for the least
Oscars", answer:
    false),
    Question(questionText: "Canada has the most lakes in the world",
answer: true),
    Question(questionText: " You can sneeze during sleep", answer: false),
    Question(questionText: " There are five Oceans in the world", answer:
true),
  ];
} class QuizPage extends
StatefulWidget {
  const QuizPage({Key? key}) : super(key: key);
  @override
  _QuizPageState createState() => _QuizPageState();
} class _QuizPageState extends
State<QuizPage> {
  int questionNumber = 0;
  int currentScore = 0;
  Questions questions = Questions();

  void updateQuestionNumber() {
    setState(() {
      questionNumber = questionNumber + 1;
      print('$questionNumber');
    });
  }

  void updateCurrentScore(bool choice, int
  question_number) {
    if (questions.questionBank.length == question_number) {
      print("end of question");
    } else {
      if (questions.questionBank[question_number].answer == choice) {
        setState(() {
          currentScore++;
        });
      }
    }
  }

  bool checkquestionNumber(int
  questionNumber) {
    return questionNumber < questions.questionBank.length ? true : false;
  }

  @override
  Widget build(BuildContext context) {
    return Container(
      child: Column(
          children: [
      Center(
      child: Text(
      checkquestionNumber(questionNumber) ?
      questions.questionBank[questionNumber].questionText.toString() : "
End",
      style: TextStyle(fontSize: 30.0),
    ),
    ),
    SizedBox(height: 20.0),
    if (checkquestionNumber(questionNumber))
    ElevatedButton(
```

```
    onPressed: () {
    setState(() {
    if (questionNumber == questions.questionBank.length) { //
    } else {
// check the user answer against the answer in the list
    updateCurrentScore(true, questionNumber);
// increment the Question Number
    updateQuestionNumber();
    }
    }); }, child:
    Text('True'),
    ),
    SizedBox(width: 20.0),
    if (checkquestionNumber(questionNumber))
    ElevatedButton(
    onPressed: () {
    setState(() {
    if (questionNumber == questions.questionBank.length) {
    } else {
// check the user answer against the answer in the list
    updateCurrentScore(false, questionNumber);
// increment the Question Number
    updateQuestionNumber();
    }
    }); }, child:
    Text('False'),
    ),
    SizedBox(
    height: 100.0,
    ),
    SizedBox(
    height: 50.0,
    ),
    Padding( padding: const
    EdgeInsets.all(30.0), child: Center(
    child: Text( "Current Scoreis:", style:
    TextStyle(fontSize: 30),
    ),
    ),
    ),
    Padding( padding: const
    EdgeInsets.all(30.0), child: Center(
    child: Text(
    '${currentScore}', style:
    TextStyle(fontSize: 30),
    ),
    ),
    ),
    ]
    ),
    );
  }
}
```