

FLUTTER MINI ASSIGNMENT

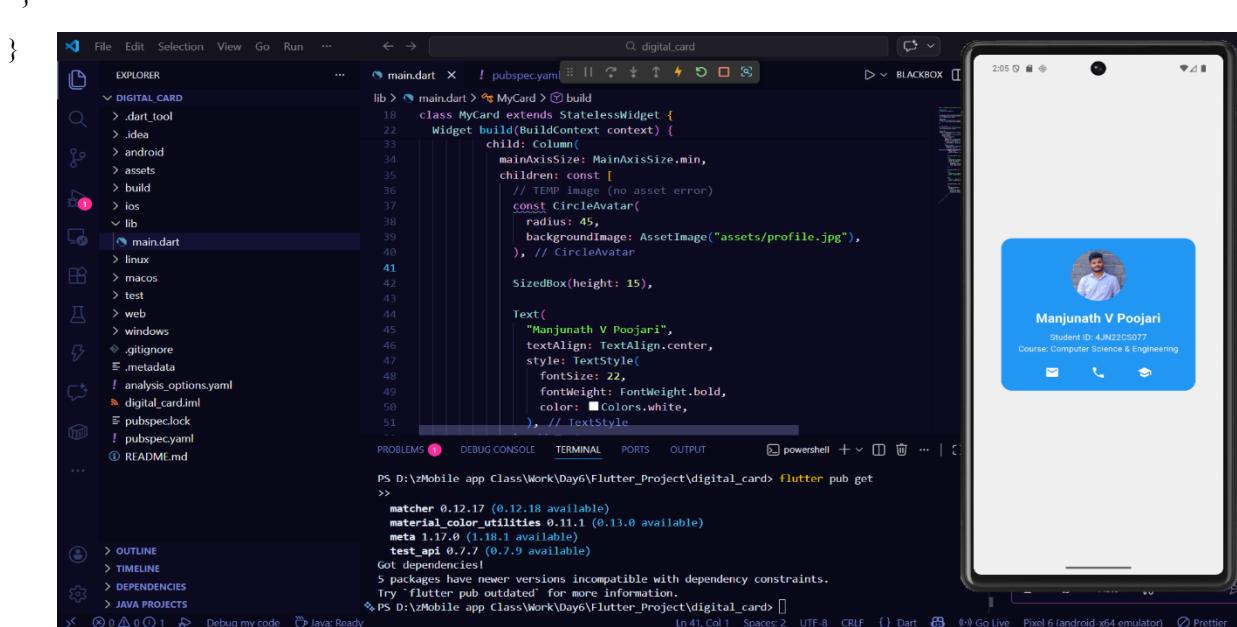
App 1 : My Digital Card

// Code:- main.dart

```
import 'package:flutter/material.dart';           // inbuilt UI widgets
void main() {
    runApp(const MyApp()); //Start the flutter app and show widgets on screen
}
class MyApp extends StatelessWidget {      //Root app and stateless means UI doesn't change dynamically
    const MyApp({super.key});
    @override
    Widget build(BuildContext context) {      // Build method builds the UI
        return const MaterialApp(debugShowCheckedModeBanner: false, home: MyCard()); //home- first screen
    }
}
class MyCard extends StatelessWidget { //Digital card screen
    const MyCard({super.key});          // Constructor
    @override
    Widget build(BuildContext context) {
        return Scaffold(                  //Basic screen layouts
            backgroundColor: Color(0xFFFFFFFF),
            body: Center(
                child: Container(          //Box in which card present
                    width: 320,
                    padding: const EdgeInsets.all(20),
                    decoration: BoxDecoration( //Styling the widgets
                        color: Colors.blue,
                        borderRadius: BorderRadius.circular(18),
                    ),
                    child: Column(             // Vertically arranges items
                        mainAxisSize: MainAxisSize.min,
                        children: const [
                            const CircleAvatar( radius: 45,
                                backgroundImage: AssetImage("assets/profile.jpg"), ), //Ext – Image added
                        ],
                    ),
                ),
            ),
        );
    }
}
```

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```
SizedBox(height: 15),           //Vertical space added
Text(
  "Manjunath V Poojari",
  textAlign: TextAlign.center,    //center alignment
  style: TextStyle(
    fontSize: 22,
    fontWeight: FontWeight.bold,
    color: Colors.white,
  ),
),
SizedBox(height: 8),
Text("Student ID: 4JN22CS077", style: TextStyle(color: Colors.white), ),
Text("Course: Computer Science & Engineering", style: TextStyle(color: Colors.white),),
SizedBox(height: 20),
Row(                           //Horizontal layouts
  mainAxisAlignment: MainAxisAlignment.spaceEvenly,
  children: [
    Icon(Icons.email, color: Colors.white),
    Icon(Icons.phone, color: Colors.white),
    Icon(Icons.school, color: Colors.white),
  ],
),
],
),
),
),
);
}
}
```



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App 2: Click Counter Game

//Code : main.dart

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

void main() {
  runApp(const MyApp());
}

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

  @override
  Widget build(BuildContext context) { //creates UI
    return const MaterialApp( //main wrapper
      debugShowCheckedModeBanner: false,
      home: ClickCounterGame(),
    );
  }
}

class ClickCounterGame extends StatefulWidget { //UI changes dynamically
  const ClickCounterGame({super.key});

  @override
  State<ClickCounterGame> createState() => _ClickCounterGameState(); //widget to state
}

class _ClickCounterGameState extends State<ClickCounterGame> { //state class
  int score = 0; //initial score

  void increase() {
    setState(() { //main tells flutter to rebuild screen as UI changed
      score++;
    });
  }

  void resetScore() { //Reset button
    setState(() {

```

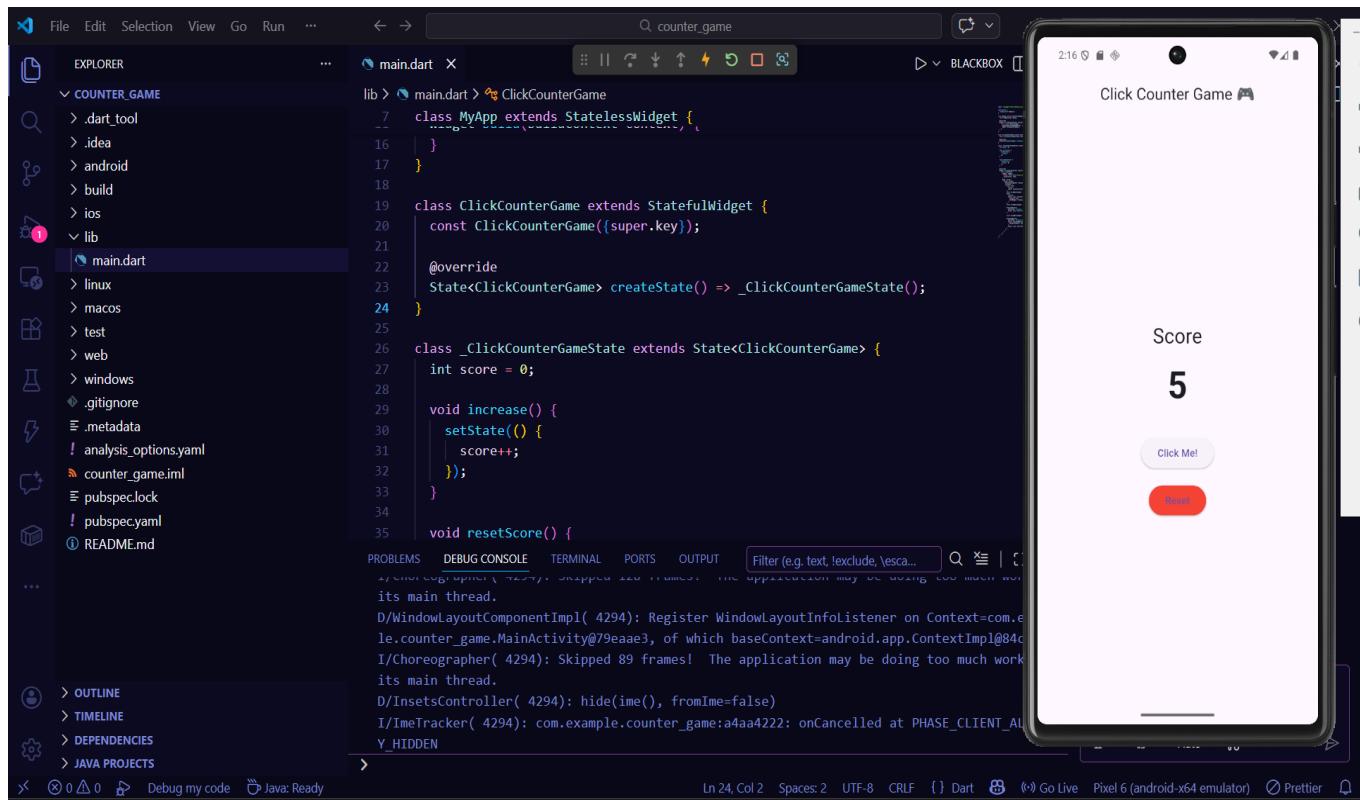
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```
score = 0;  
});  
}  
  
@override  
Widget build(BuildContext context) { //visible screen  
    return Scaffold(  
        appBar: AppBar( // Top bar  
            title: const Text("Click Counter Game 🎮"),  
            centerTitle: true,  
        ),  
  
        body: Center( //Everything in center  
            child: Column(  
                mainAxisAlignment: MainAxisAlignment.center,  
                children: [  
                    const Text(  
                        "Score",  
                        style: TextStyle(fontSize: 28),  
                    ),  
                    const SizedBox(height: 10), //Adds space  
  
                    Text(  
                        "$score",  
                        style: const TextStyle(  
                            fontSize: 50,  
                            fontWeight: FontWeight.bold,  
                        ),  
                ],  
  
                const SizedBox(height: 30),  
                ElevatedButton(  
                    onPressed: increase, //calls increase function  
                    child: const Text("Click Me!"),  
                ),  
            ),  
        ),  
    );  
}
```

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```
const SizedBox(height: 15),  
ElevatedButton(  
    onPressed: resetScore, //calls reset function  
    style: ElevatedButton.styleFrom(  
        backgroundColor: Colors.red,  
    ),  
    child: const Text("Reset"),  
,  
],  
,  
,  
);  
}  
}
```

//Output



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App 3: Quote of the Day

//Code: main.dart

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

void main() {
    runApp(const MyApp()); //first widget shows MyApp(root app)
}

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

    @override
    Widget build(BuildContext context) {
        return const MaterialApp(
            debugShowCheckedModeBanner: false,
            home: QuoteApp(), //first screen
        );
    }
}

class QuoteApp extends StatefulWidget {
    const QuoteApp({super.key});

    @override
    State<QuoteApp> createState() => _QuoteAppState();
}

class _QuoteAppState extends State<QuoteApp> { //data + UI handler
    List<String> quotes = [
        "Believe in yourself.",
        "Success is built daily.",
        "Dream big, work hard.", // List stores multiple quotes
        "Stay consistent.",
        "You are stronger than you think."
    ];
    int index = 0; //Starting index to display quote
```

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```
void nextQuote() {  
    setState(() {  
        index = (index + 1) % quotes.length;    //Index moves to next quote with loop back to start as well  
    });  
}  
  
@override  
  
Widget build(BuildContext context) {          //Builds UI  
    return Scaffold(                      //Basic layout  
        appBar: AppBar(  
            title: const Text("Quote of the Day 🗣"),      // Top bar with title  
            centerTitle: true,  
        ),  
        body: Center(  
            child: Padding(  
                padding: const EdgeInsets.all(20),           //Add spaces around content  
                child: Column(  
                    mainAxisAlignment: MainAxisAlignment.center,    //make it vertically in center  
                    children: [  
                        Text(  
                            quotes[index],  
                            textAlign: TextAlign.center,  
                            style: const TextStyle(  
                                fontSize: 24,  
                                fontStyle: FontStyle.italic,  
                            ),  
                        ),  
                        const SizedBox(height: 30),  
                        ElevatedButton(  
                            onPressed: nextQuote,                  //Calls nextQuote()  
                            child: const Text("Next Quote"),       //Button text  
                        ),  
                    ],  
                ),  
            ),  
        ),  
    );  
}
```

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

//Output

