

Tugas 5-2

Nama : Feri Kusuma Wardhana

NIM : 2113010226

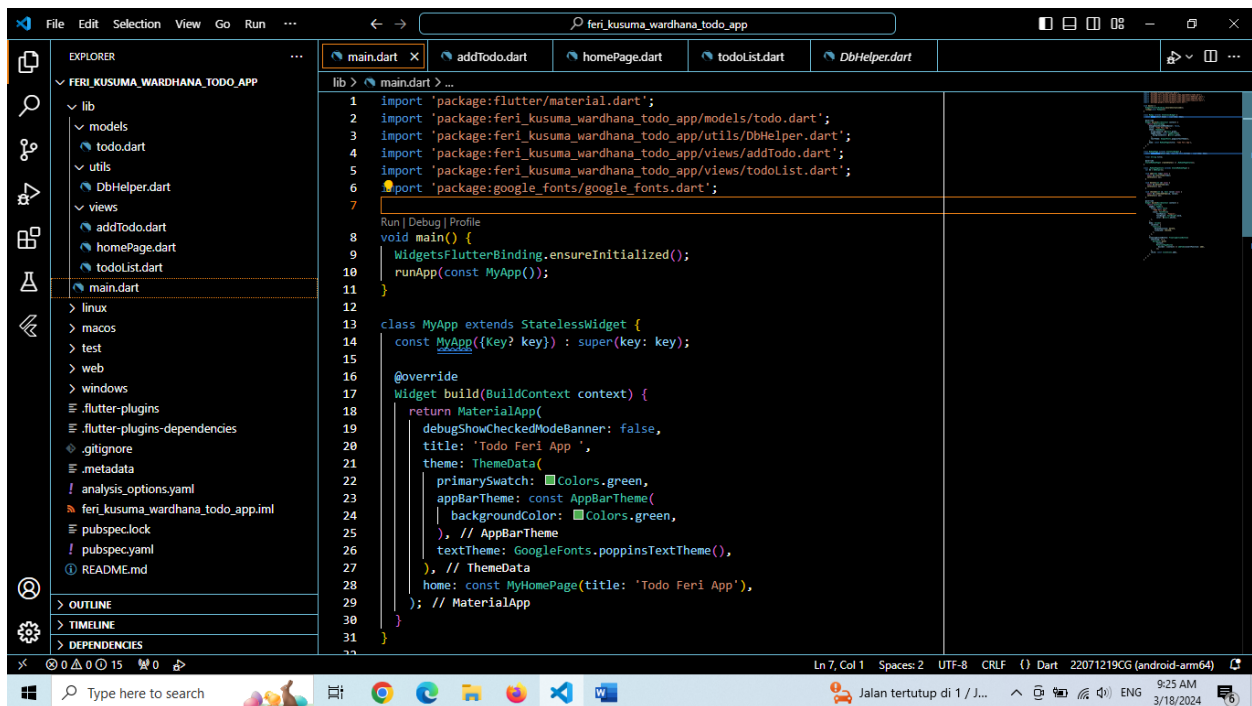
Grup : 1B

Saya telah mempersiapkan dengan kode ini ke git hub akan tetapi untuk folder build saya hapus karena file yang besar, berikut adalah linknya

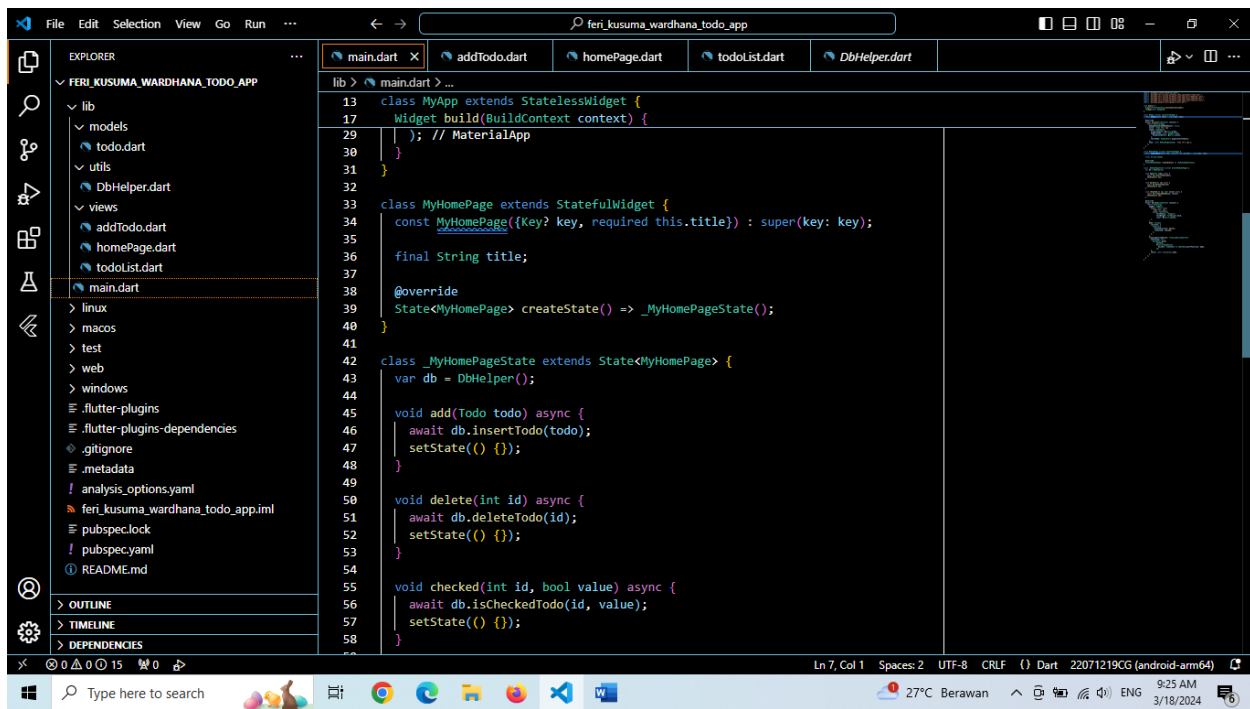
Github untuk kode ini : <https://github.com/ferikw/Tugas-5-2-Feri-Kusuma-Wardhana.git>

Saya telah melakukan screenshot dari kode dan hasil tampilan dari kode yang telah saya buat , Saya telah membuat kode sesuai tugas yang ada di 5-2 , kodenya adalah sebagai berikut , saya juga sudah menambahkan sqflite dan google font didalam kodenya , saya menggunakan google font poppins , berikut adalah keseluruhan kodenya

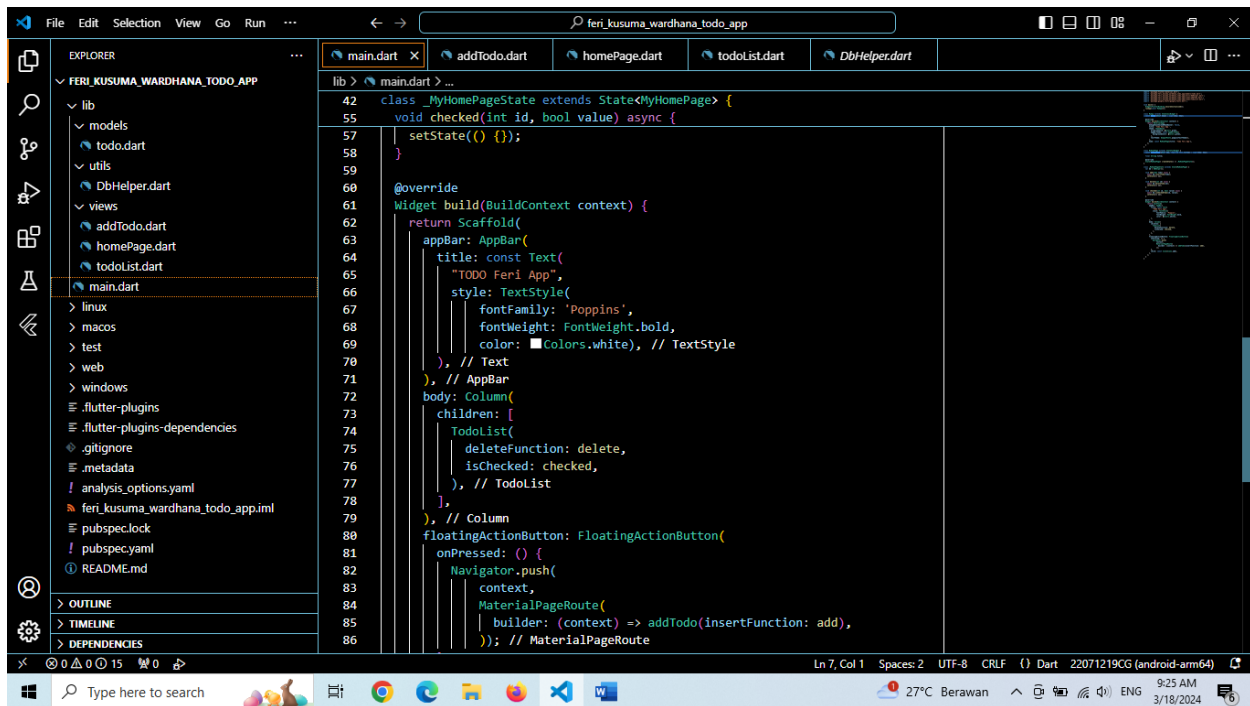
1. Kode pada main.dart



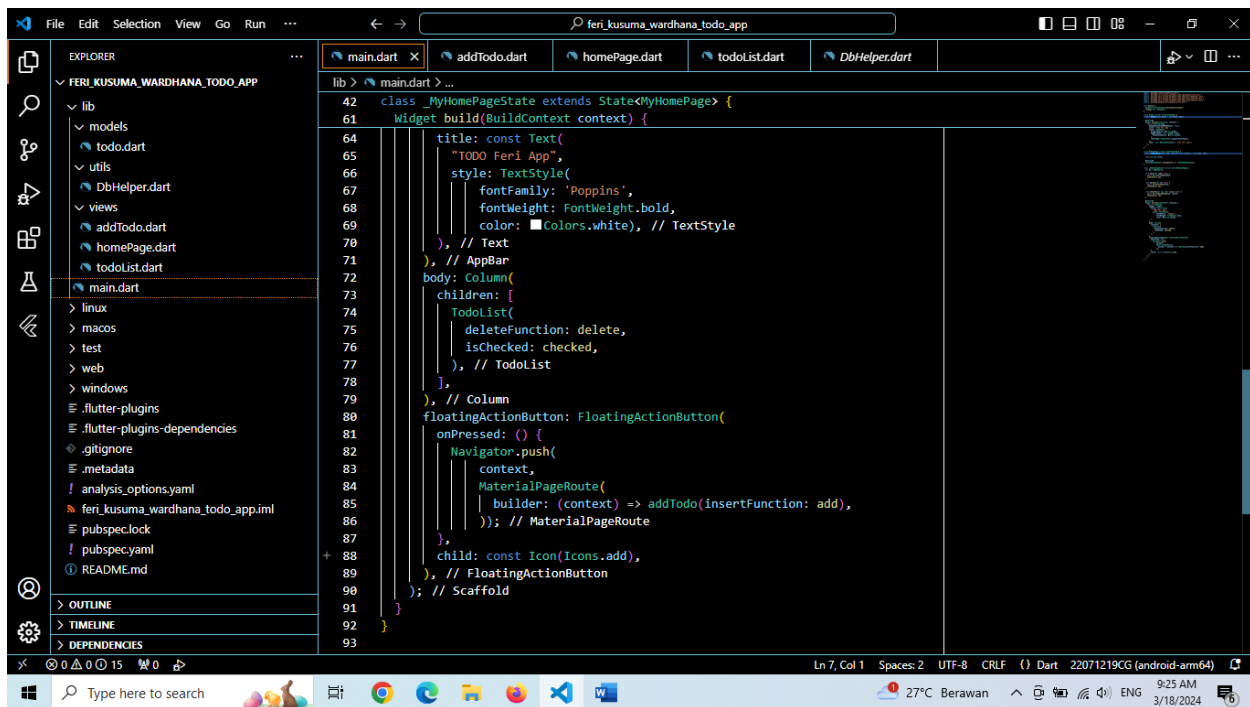
```
1 import 'package:flutter/material.dart';
2 import 'package:feri_kusuma_wardhana_todo_app/models/todo.dart';
3 import 'package:feri_kusuma_wardhana_todo_app/utils/DbHelper.dart';
4 import 'package:feri_kusuma_wardhana_todo_app/views/addTodo.dart';
5 import 'package:feri_kusuma_wardhana_todo_app/views/todoList.dart';
6 import 'package:google_fonts/google_fonts.dart';
7
8 Run | Debug | Profile
9 void main() {
10   WidgetsFlutterBinding.ensureInitialized();
11   runApp(const MyApp());
12 }
13
14 class MyApp extends StatelessWidget {
15   const MyApp({Key? key}) : super(key: key);
16
17   @override
18   Widget build(BuildContext context) {
19     return MaterialApp(
20       debugShowCheckedModeBanner: false,
21       title: 'Todo Feri App ',
22       theme: ThemeData(
23         primarySwatch: Colors.green,
24         appBarTheme: const AppBarTheme(
25           backgroundColor: Colors.green,
26         ), // AppBarTheme
27         textTheme: GoogleFonts.poppinsTextTheme(),
28       ), // ThemeData
29       home: const MyHomePage(title: 'Todo Feri App'),
30     ); // MaterialApp
31   }
32 }
```



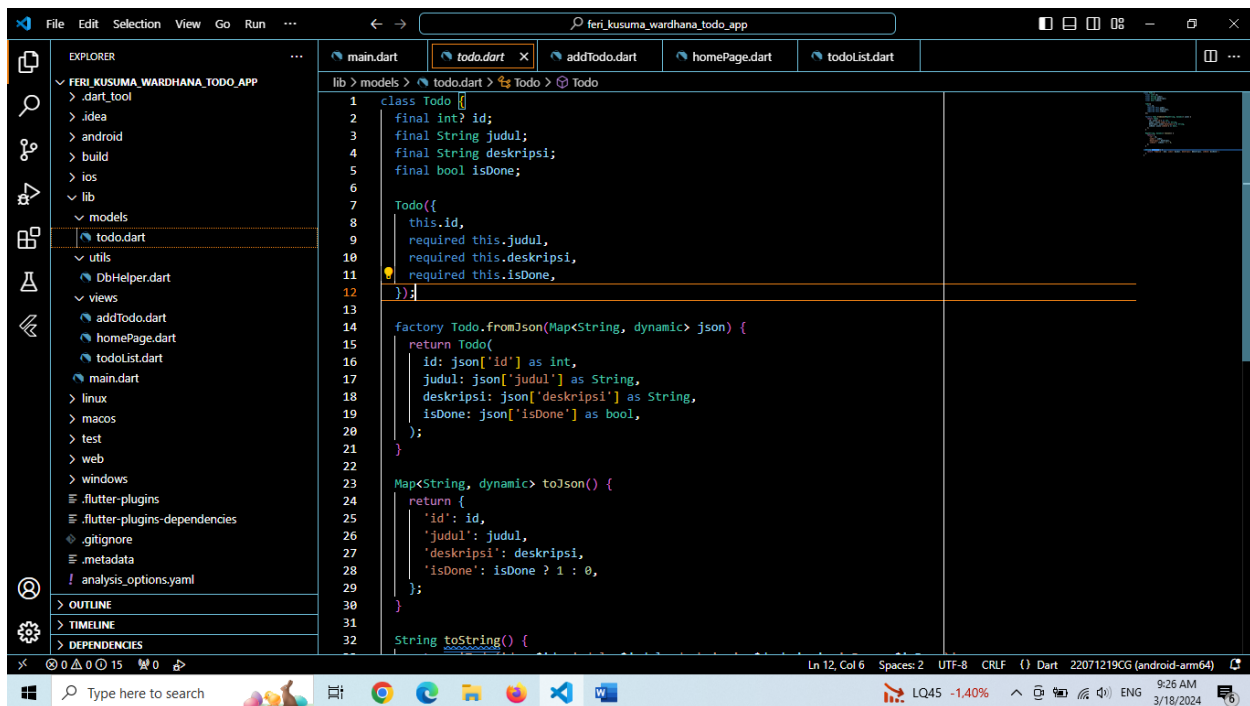
```
lib > main.dart > ...
13 class MyApp extends StatelessWidget {
17   Widget build(BuildContext context) {
29     ); // MaterialApp
30   }
31 }
32
33 class MyHomePage extends StatefulWidget {
34   const MyHomePage({Key? key, required this.title}) : super(key: key);
35
36   final String title;
37
38   @override
39   State<MyHomePage> createState() => _MyHomePageState();
40 }
41
42 class _MyHomePageState extends State<MyHomePage> {
43   var db = DbHelper();
44
45   void add(Todo todo) async {
46     await db.insertTodo(todo);
47     setState(() {});
48   }
49
50   void delete(int id) async {
51     await db.deleteTodo(id);
52     setState(() {});
53   }
54
55   void checked(int id, bool value) async {
56     await db.isCheckedTodo(id, value);
57     setState(() {});
58   }
59 }
```



```
lib > main.dart > ...
42 class _MyHomePageState extends State<MyHomePage> {
55   void checked(int id, bool value) async {
57     setState(() {});
58   }
59
60   @override
61   Widget build(BuildContext context) {
62     return Scaffold(
63       appBar: AppBar(
64         title: const Text(
65           "TODO FERI App",
66           style: TextStyle(
67             fontFamily: 'Poppins',
68             fontWeight: FontWeight.bold,
69             color: Colors.white), // TextStyle
70       ), // Text
71     ), // AppBar
72     body: Column(
73       children: [
74         TodoList(
75           deleteFunction: delete,
76           isChecked: checked,
77         ), // TodoList
78       ],
79     ), // Column
80     floatingActionButton: FloatingActionButton(
81       onPressed: () {
82         Navigator.push(
83           context,
84           MaterialPageRoute(
85             builder: (context) => addTodo(insertFunction: add),
86           ); // MaterialPageRoute
87       },
88     ),
89   );
90 }
```



2. Berikut adalah kode pada todo.dart pada folder models



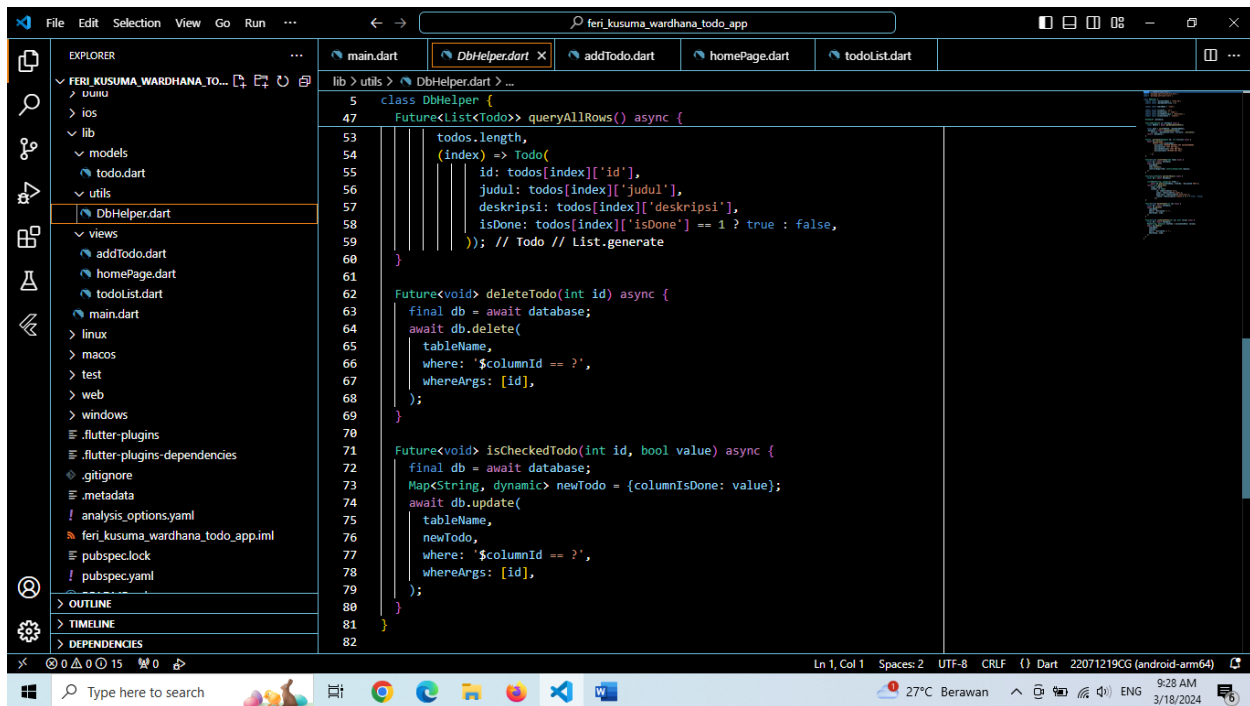
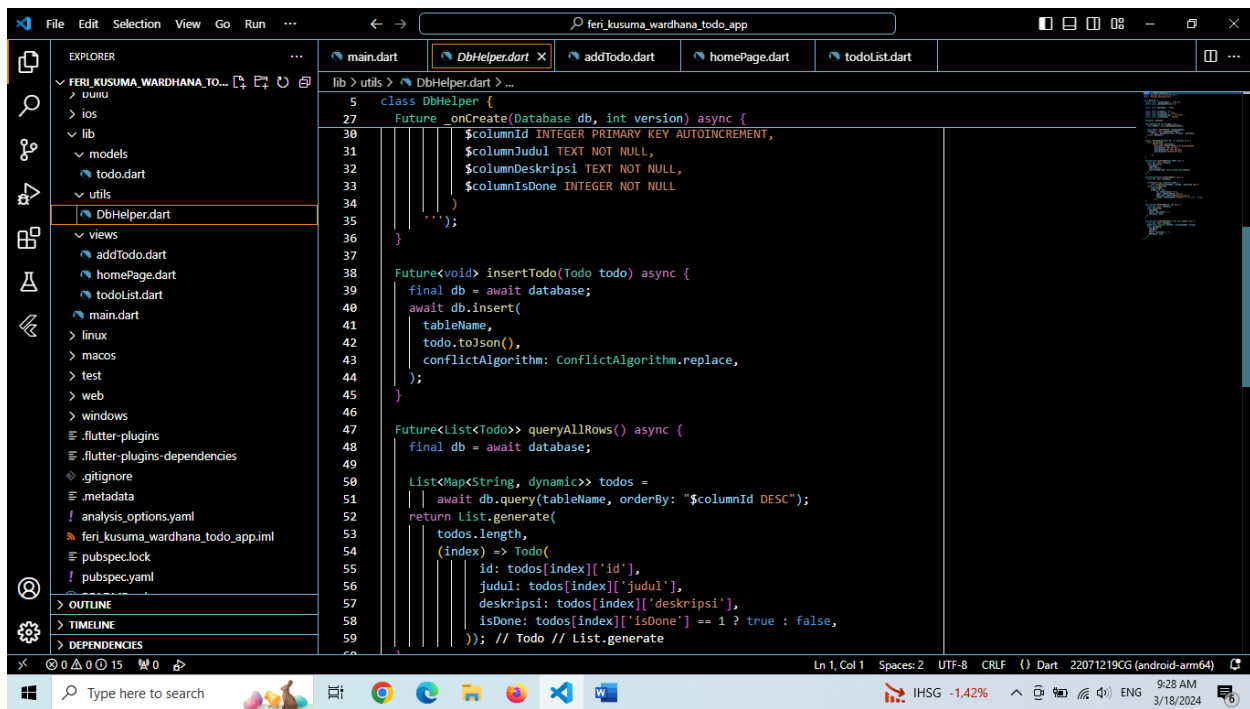
The screenshot shows an IDE with the file explorer on the left displaying the project structure. The main editor window shows the code for the `lib/models/todo.dart` file. The code defines a `Todo` class with a constructor, a `fromJson` factory method, a `toJson` method, and a `toString` method.

```
1 class Todo {
2
3   Todo({
4     this.id,
5     required this.judul,
6     required this.deskripsi,
7     required this.isDone,
8   });
9
10  factory Todo.fromJson(Map<String, dynamic> json) {
11    return Todo(
12      id: json['id'] as int,
13      judul: json['judul'] as String,
14      deskripsi: json['deskripsi'] as String,
15      isDone: json['isDone'] as bool,
16    );
17  }
18
19  Map<String, dynamic> toJson() {
20    return {
21      'id': id,
22      'judul': judul,
23      'deskripsi': deskripsi,
24      'isDone': isDone ? 1 : 0,
25    };
26  }
27
28  String toString() {
29    return 'Todo(id: $id, judul: $judul, deskripsi: $deskripsi, isDone: $isDone)';
30  }
31}
```

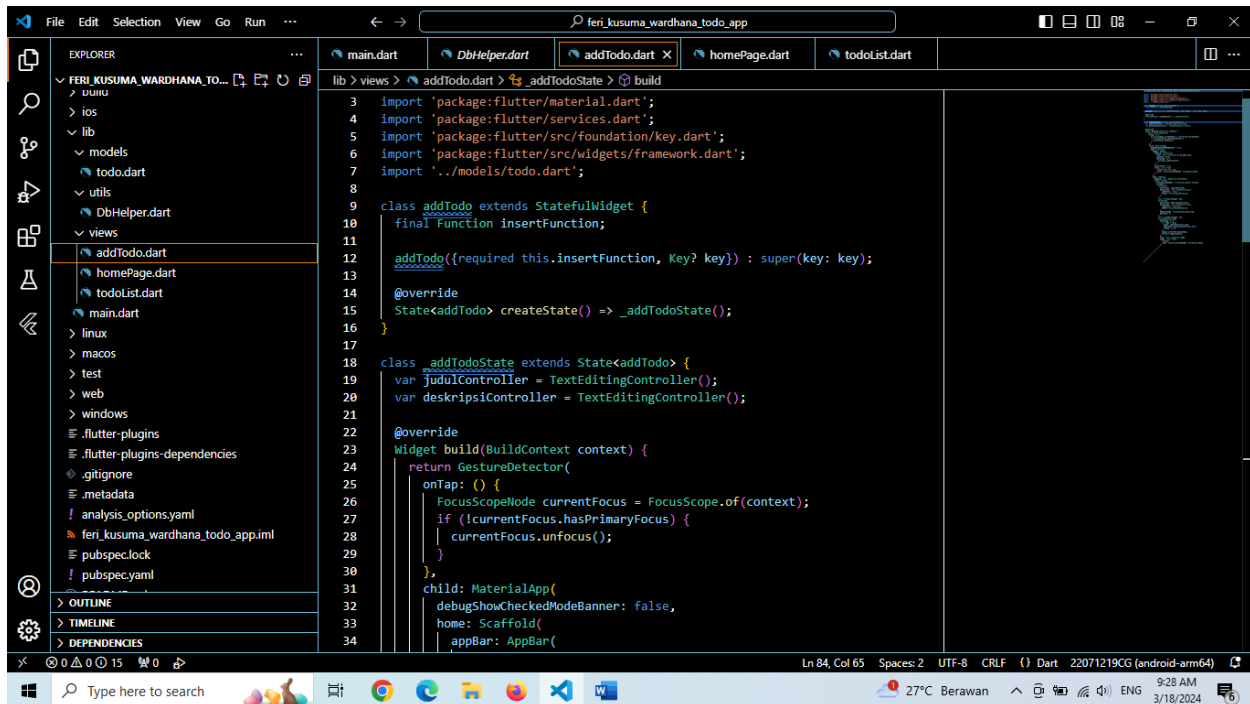
3. Berikut adalah kode pada DpHelper.dart pada folder utils

The screenshot shows an IDE with the file explorer on the left displaying the project structure. The main editor window shows the code for the `lib/utils/db_helper.dart` file. The code defines a `DbHelper` class that manages a SQLite database, including static constants for database name, version, and table name, and methods for getting the database instance and creating the table.

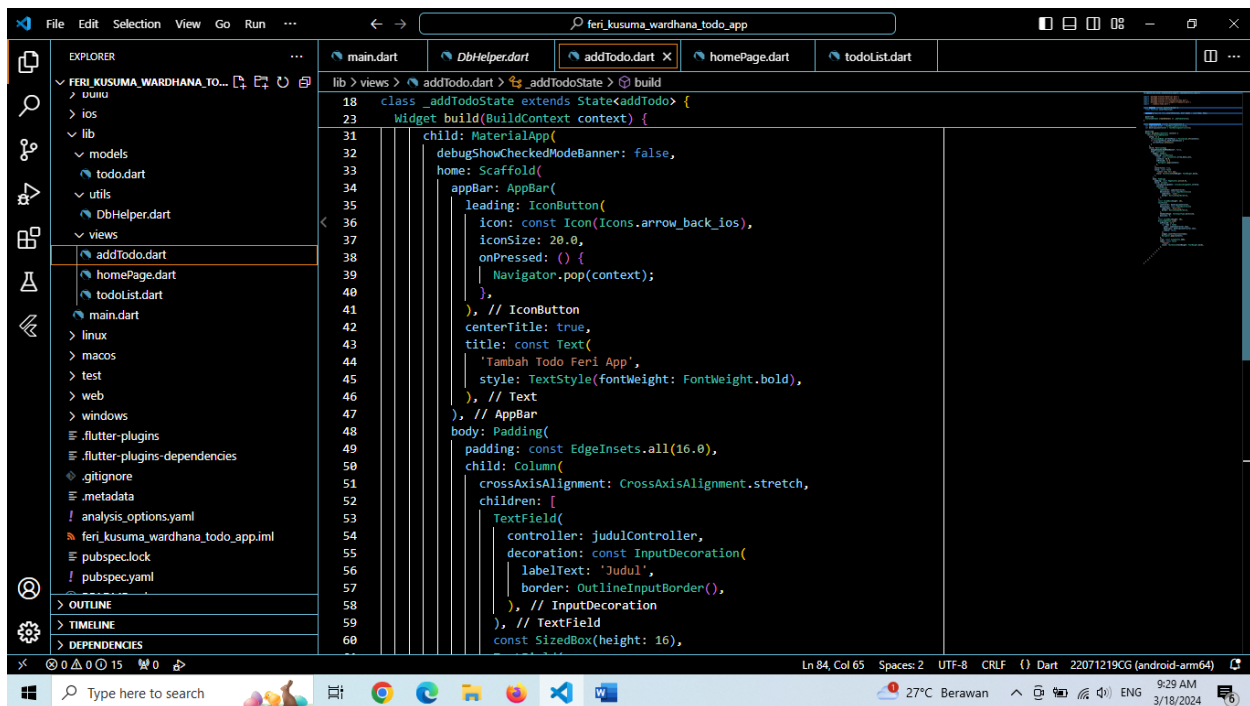
```
1 import '../models/todo.dart';
2 import 'package:sqflite/sqflite.dart';
3 import 'package:path/path.dart';
4
5 class DbHelper {
6   static const _databaseName = "todo.db";
7   static const _databaseVersion = 1;
8
9   static const tableName = "todo";
10
11   static const columnId = 'id';
12   static const columnJudul = 'judul';
13   static const columnDeskripsi = 'deskripsi';
14   static const columnIsDone = 'isDone';
15
16   Database? _database;
17
18   Future<Database> get database async {
19     final dbPath = await getDatabasesPath();
20
21     final path = join(dbPath, _databaseName);
22     _database = await openDatabase(path,
23       | version: _databaseVersion, onCreate: _onCreate);
24     return _database!;
25   }
26
27   Future _onCreate(Database db, int version) async {
28     await db.execute('''
29       CREATE TABLE $tableName (
30         $columnId INTEGER PRIMARY KEY AUTOINCREMENT,
31         $columnJudul TEXT NOT NULL,
32         $columnDeskripsi TEXT NOT NULL,
```



4. Berikut adalah kode pada addTodo.dart di folder view



```
lib > views > addTodo.dart > addTodoState > build
3 import 'package:flutter/material.dart';
4 import 'package:flutter/services.dart';
5 import 'package:flutter/src/foundation/key.dart';
6 import 'package:flutter/src/widgets/framework.dart';
7 import '../models/todo.dart';
8
9 class addTodo extends StatefulWidget {
10   final Function insertFunction;
11
12   addTodo({required this.insertFunction, Key? key}) : super(key: key);
13
14   @override
15   State<addTodo> createState() => _addTodoState();
16 }
17
18 class _addTodoState extends State<addTodo> {
19   var judulController = TextEditingController();
20   var deskripsiController = TextEditingController();
21
22   @override
23   Widget build(BuildContext context) {
24     return GestureDetector(
25       onTap: () {
26         FocusScopeNode currentFocus = FocusScope.of(context);
27         if (!currentFocus.hasPrimaryFocus) {
28           currentFocus.unfocus();
29         }
30       },
31       child: MaterialApp(
32         debugShowCheckedModeBanner: false,
33         home: Scaffold(
34           appBar: AppBar(
```



```
18 class _addTodoState extends State<addTodo> {
23   Widget build(BuildContext context) {
31     child: MaterialApp(
32       debugShowCheckedModeBanner: false,
33       home: Scaffold(
34         appBar: AppBar(
35           leading: IconButton(
36             icon: const Icon(Icons.arrow_back_ios),
37             iconSize: 20.0,
38             onPressed: () {
39               Navigator.pop(context);
40             },
41           ), // IconButton
42           centerTitle: true,
43           title: const Text(
44             'Tambah Todo Feri App',
45             style: TextStyle(fontWeight: FontWeight.bold),
46           ), // Text
47         ), // AppBar
48         body: Padding(
49           padding: const EdgeInsets.all(16.0),
50           child: Column(
51             crossAxisAlignment: CrossAxisAlignment.stretch,
52             children: [
53               TextField(
54                 controller: judulController,
55                 decoration: const InputDecoration(
56                   labelText: 'Judul',
57                   border: OutlineInputBorder(),
58                 ), // InputDecoration
59               ), // TextField
60               const SizedBox(height: 16),
```

File Edit Selection View Go Run ... ferri_kusuma_wardhana_todo_app

EXPLORER

- FERI_KUSUMA_WARDHANA_TODO_APP
 - main.dart
 - lib
 - views
 - addTodo.dart
 - homePage.dart
 - todoList.dart

lib > views > addTodo.dart > addTodoState > build

```
18 class _addTodoState extends State<addTodo> {
23   Widget build(BuildContext context) {
58     // InputDecoration
59     // TextField
60     const SizedBox(height: 16),
61     TextField(
62       controller: deskripsiController,
63       decoration: const InputDecoration(
64         labelText: 'Deskripsi',
65         border: OutlineInputBorder(),
66       ), // InputDecoration
67       keyboardType: TextInputType.multiline,
68       maxLines: 3,
69     ), // TextField
70     const SizedBox(height: 16),
71     ElevatedButton.icon(
72       onPressed: () {
73         var todo = Todo(
74           judul: judulController.text,
75           deskripsi: deskripsiController.text,
76           isDone: false,
77         ); // Todo
78         widget.insertFunction(todo);
79         Navigator.pop(context);
80       },
81       icon: const Icon(Icons.add),
82       label: const Text(
83         "Tambah",
84         style: TextStyle(fontWeight: FontWeight.bold),
85       ), // Text
86     ), // ElevatedButton.icon
87   },
}
```

Ln 84, Col 65 Spaces: 2 UTF-8 CRLF () Dart 22071219CG (android-arm64)

File Edit Selection View Go Run ... ferri_kusuma_wardhana_todo_app

EXPLORER

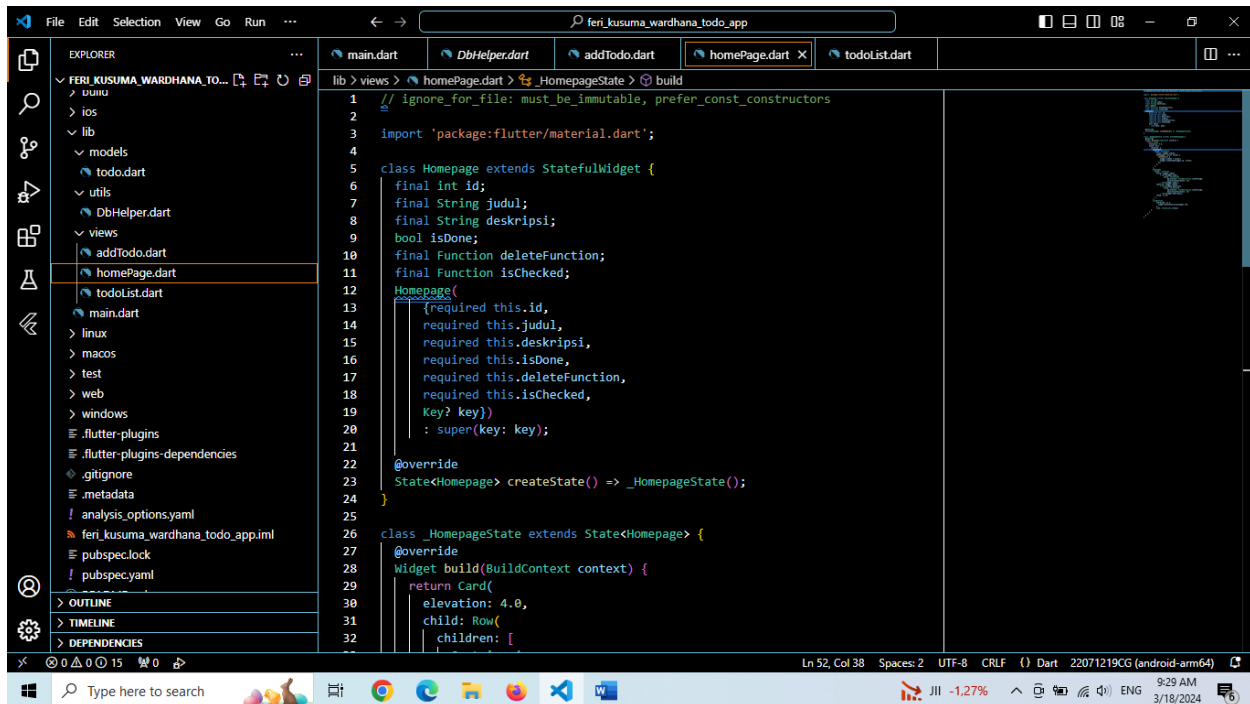
- FERI_KUSUMA_WARDHANA_TODO_APP
 - main.dart
 - lib
 - views
 - addTodo.dart
 - homePage.dart
 - todoList.dart

lib > views > addTodo.dart > addTodoState > build

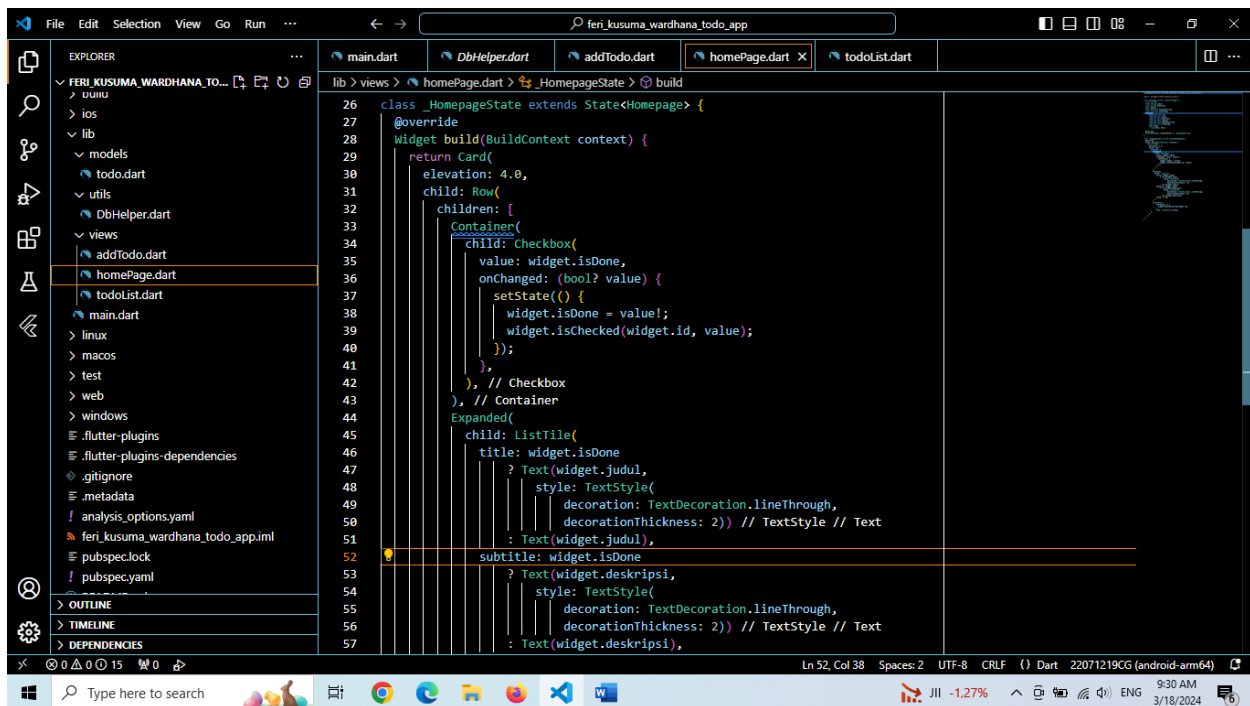
```
18 class _addTodoState extends State<addTodo> {
23   Widget build(BuildContext context) {
66     // InputDecoration
67     keyboardType: TextInputType.multiline,
68     maxLines: 3,
69     // TextField
70     const SizedBox(height: 16),
71     ElevatedButton.icon(
72       onPressed: () {
73         var todo = Todo(
74           judul: judulController.text,
75           deskripsi: deskripsiController.text,
76           isDone: false,
77         ); // Todo
78         widget.insertFunction(todo);
79         Navigator.pop(context);
80       },
81       icon: const Icon(Icons.add),
82       label: const Text(
83         "Tambah",
84         style: TextStyle(fontWeight: FontWeight.bold),
85       ), // Text
86     ), // ElevatedButton.icon
87   },
88 }, // Column
89 ), // Padding
90 ), // Scaffold
91 ), // MaterialApp
92 ); // GestureDetector
93 }
94 }
95 }
```

Ln 84, Col 65 Spaces: 2 UTF-8 CRLF () Dart 22071219CG (android-arm64)

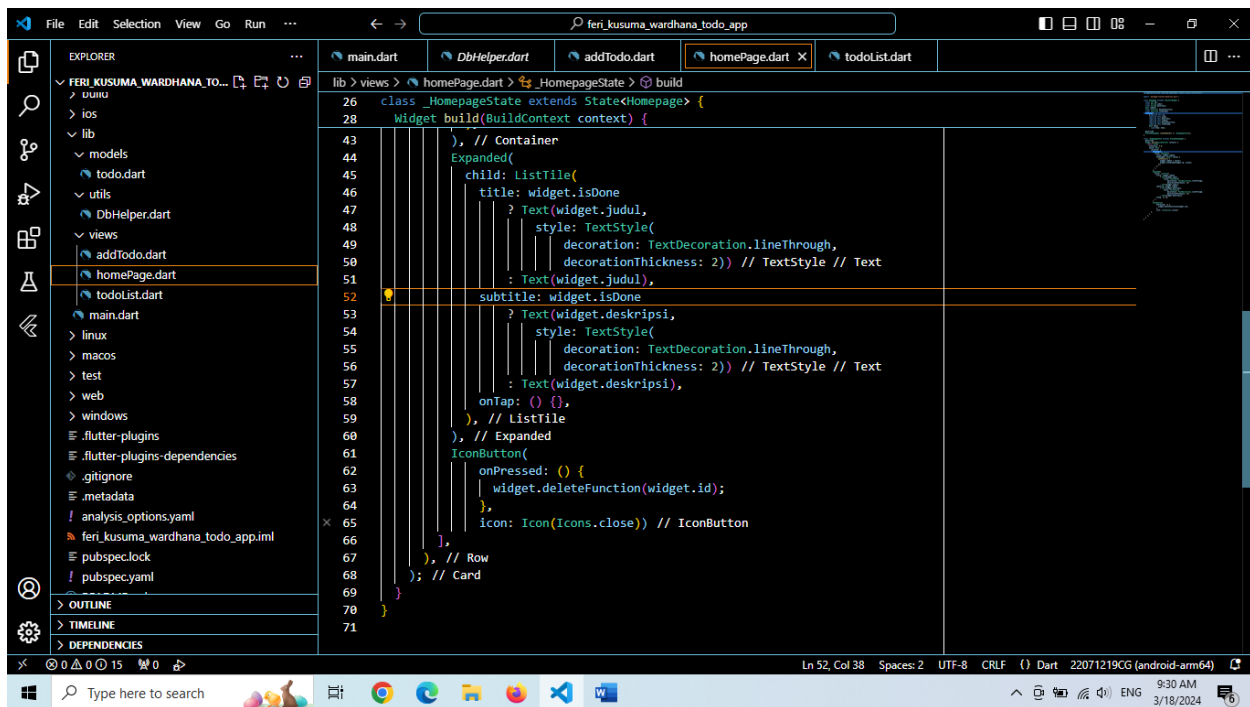
5. Berikut adalah kode pada homePage.dart pada folder views



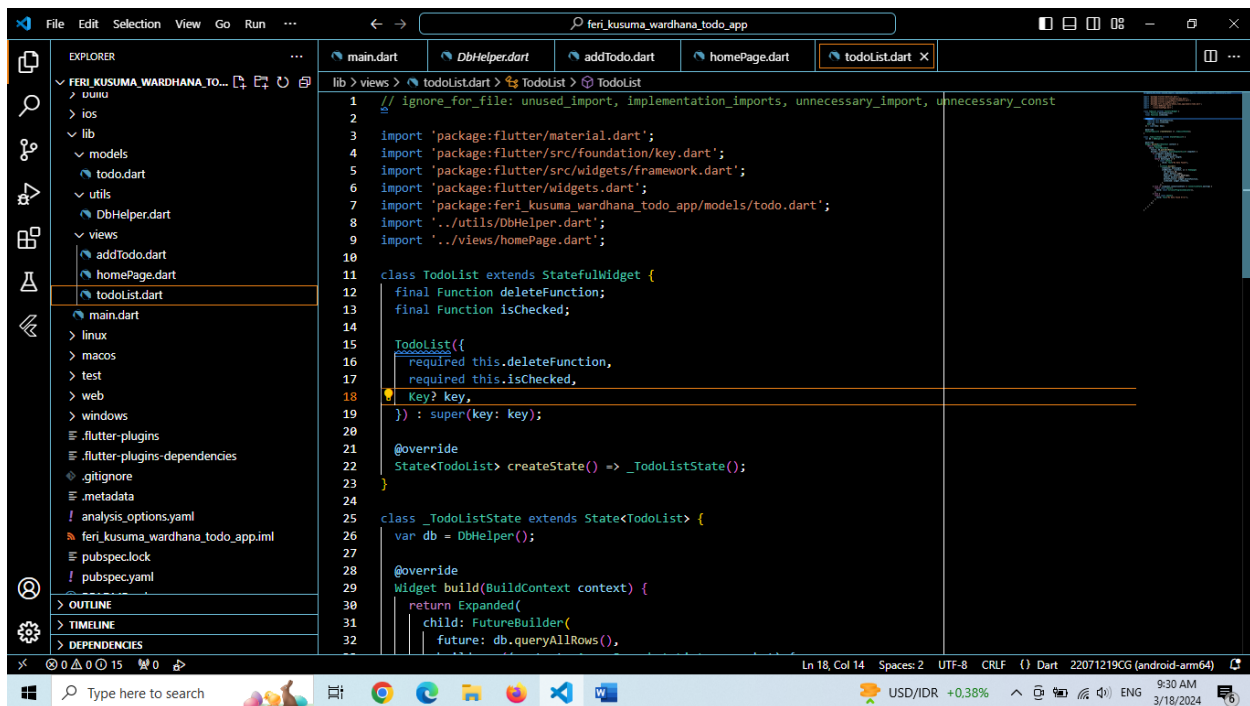
```
lib > views > homePage.dart > _HomePageState > build
1 // ignore_for_file: must_be_immutable, prefer_const_constructors
2
3 import 'package:flutter/material.dart';
4
5 class HomePage extends StatefulWidget {
6   final int id;
7   final String judul;
8   final String deskripsi;
9   bool isDone;
10  final Function deleteFunction;
11  final Function isChecked;
12  HomePage(
13    {required this.id,
14     required this.judul,
15     required this.deskripsi,
16     required this.isDone,
17     required this.deleteFunction,
18     required this.isChecked,
19     Key? key})
20    : super(key: key);
21
22  @override
23  State<HomePage> createState() => _HomePageState();
24 }
25
26 class _HomePageState extends State<HomePage> {
27   @override
28   Widget build(BuildContext context) {
29     return Card(
30       elevation: 4.0,
31       child: Row(
32         children: [
```



```
33       Container(
34         child: Checkbox(
35           value: widget.isDone,
36           onChanged: (bool? value) {
37             setState(() {
38               widget.isDone = value!;
39               widget.isChecked(widget.id, value);
40             });
41           }, // Checkbox
42         ), // Container
43       Expanded(
44         child: ListTile(
45           title: widget.isDone
46             ? Text(widget.judul,
47               style: TextStyle(
48                 decoration: TextDecoration.lineThrough,
49                 decorationThickness: 2)) // TextStyle // Text
50             : Text(widget.judul),
51           subtitle: widget.isDone
52             ? Text(widget.deskripsi,
53               style: TextStyle(
54                 decoration: TextDecoration.lineThrough,
55                 decorationThickness: 2)) // TextStyle // Text
56             : Text(widget.deskripsi),
57         ),
```

6. Berikut adalah kode todoList yang berada pada folder views



File Edit Selection View Go Run ...

feri_kusuma_wardhana_todo_app

EXPLORER

- FERI_KUSUMA_WARDHANA_TODO_APP
 - lib
 - models
 - todo.dart
 - utils
 - DbHelper.dart
 - views
 - addTodo.dart
 - homePage.dart
 - todoList.dart
 - linux
 - macos
 - test
 - web
 - windows
 - .flutter-plugins
 - .flutter-plugins-dependencies
 - .gitignore
 - .metadata
 - ! analysis_options.yaml
 - feri_kusuma_wardhana_todo_app.iml
 - pubspec.lock
 - ! pubspec.yaml
- OUTLINE
- TIMELINE
- DEPENDENCIES

lib > views > todoList.dart > TodoList > TodoList

```
25 class _TodoListState extends State<TodoList> {
29   Widget build(BuildContext context) {
30     return Expanded(
31       child: FutureBuilder(
32         future: db.queryAllRows(),
33         builder: ((context, AsyncSnapshot<List> snapshot) {
34           if (snapshot.hasData) {
35             var data = snapshot.data;
36             var dataLength = data!.length;
37             return dataLength == 0
38               ? const Center(
39                 | child: Text("No Data Found"),
40               ) // Center
41               : ListView.builder(
42                 itemCount: dataLength,
43                 itemBuilder: (context, i) => Homepage(
44                   id: data[i].id,
45                   judul: data[i].judul,
46                   deskripsi: data[i].deskripsi,
47                   isDone: data[i].isDone,
48                   deleteFunction: widget.deleteFunction,
49                   isChecked: widget.isChecked,
50                 ), // Homepage
51               ); // ListView.builder
52           } else if (snapshot.connectionState == ConnectionState.waiting) {
53             return const Center(
54               | child: const CircularProgressIndicator(),
55             ); // Center
56           } else {
57             return const Center(
58               | child: Text("No Data Found Error"),
59             ); // Center
60           }
61         })
62       ), // FutureBuilder
63     ); // Expanded
64   }
65 }
66
```

Ln 18, Col 14 Spaces: 2 UTF-8 CRLF () Dart 22071219CG (android-arm64)

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File Edit Selection View Go Run ...

feri_kusuma_wardhana_todo_app

EXPLORER

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- DEPENDENCIES

lib > views > todoList.dart > TodoList > TodoList

```
25 class _TodoListState extends State<TodoList> {
29   Widget build(BuildContext context) {
30     return Expanded(
31       child: FutureBuilder(
32         future: db.queryAllRows(),
33         builder: ((context, AsyncSnapshot<List> snapshot) {
34           if (snapshot.hasData) {
35             var data = snapshot.data;
36             var dataLength = data!.length;
37             return dataLength == 0
38               ? const Center(
39                 | child: Text("No Data Found"),
40               ) // Center
41               : ListView.builder(
42                 itemCount: dataLength,
43                 itemBuilder: (context, i) => Homepage(
44                   id: data[i].id,
45                   judul: data[i].judul,
46                   deskripsi: data[i].deskripsi,
47                   isDone: data[i].isDone,
48                   deleteFunction: widget.deleteFunction,
49                   isChecked: widget.isChecked,
50                 ), // Homepage
51               ); // ListView.builder
52           } else if (snapshot.connectionState == ConnectionState.waiting) {
53             return const Center(
54               | child: const CircularProgressIndicator(),
55             ); // Center
56           } else {
57             return const Center(
58               | child: Text("No Data Found Error"),
59             ); // Center
60           }
61         })
62       ), // FutureBuilder
63     ); // Expanded
64   }
65 }
66
```

Ln 18, Col 14 Spaces: 2 UTF-8 CRLF () Dart 22071219CG (android-arm64)

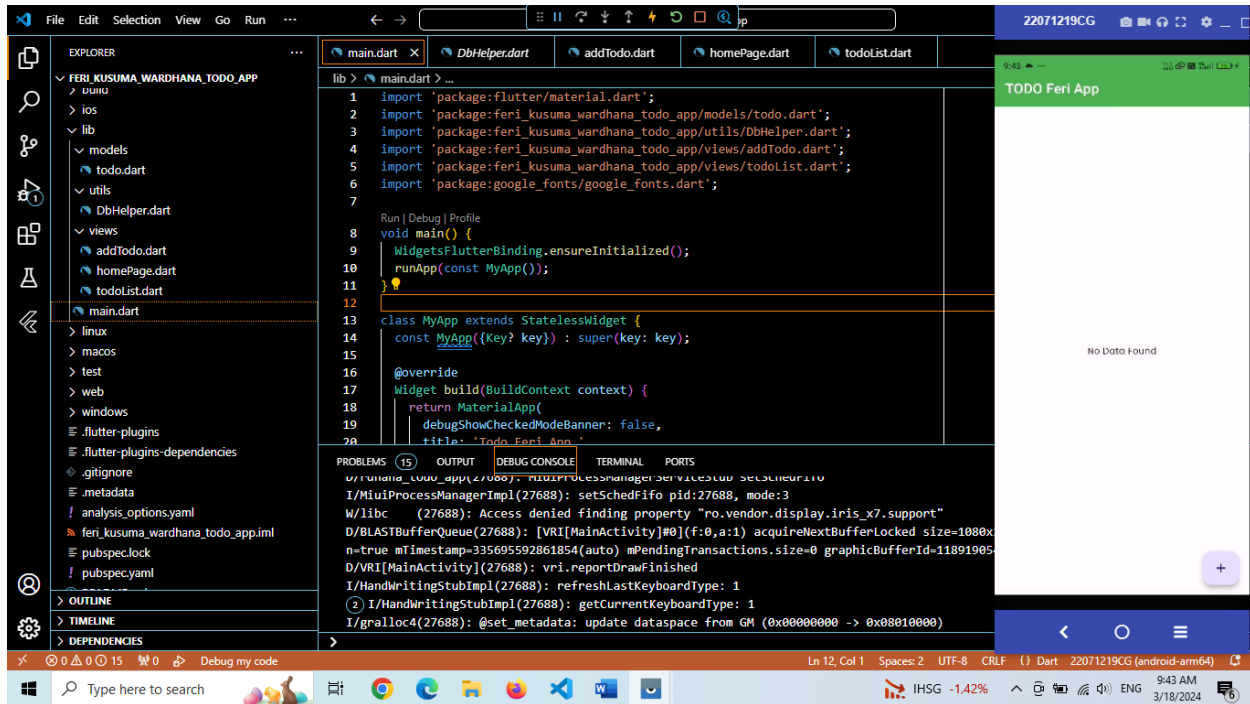
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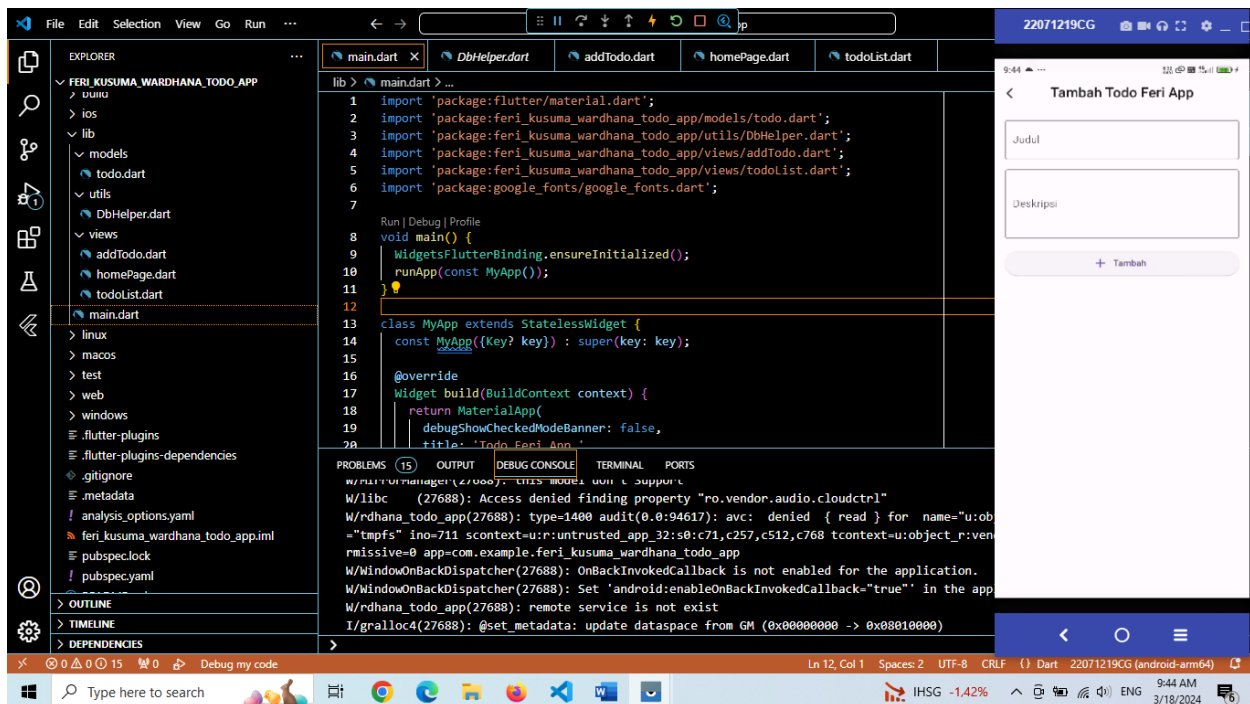
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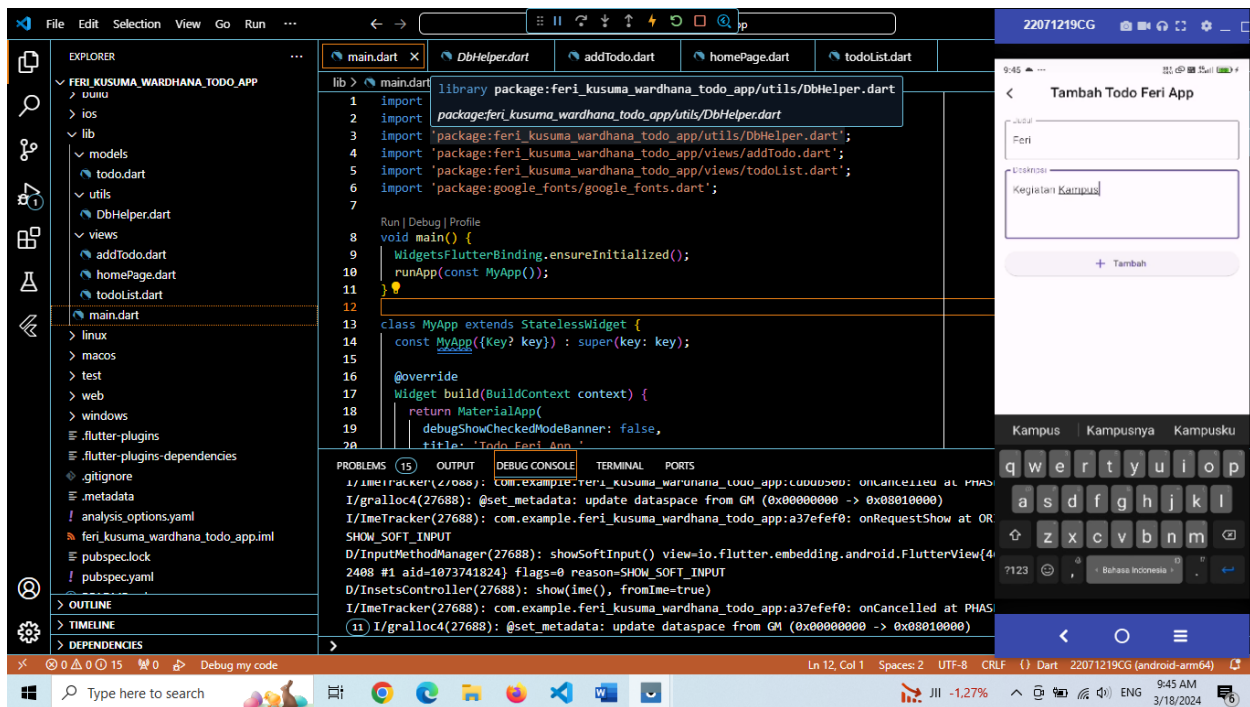
A. Tampilan Aplikasi

1) Berikut adalah tampilan dari Todo App

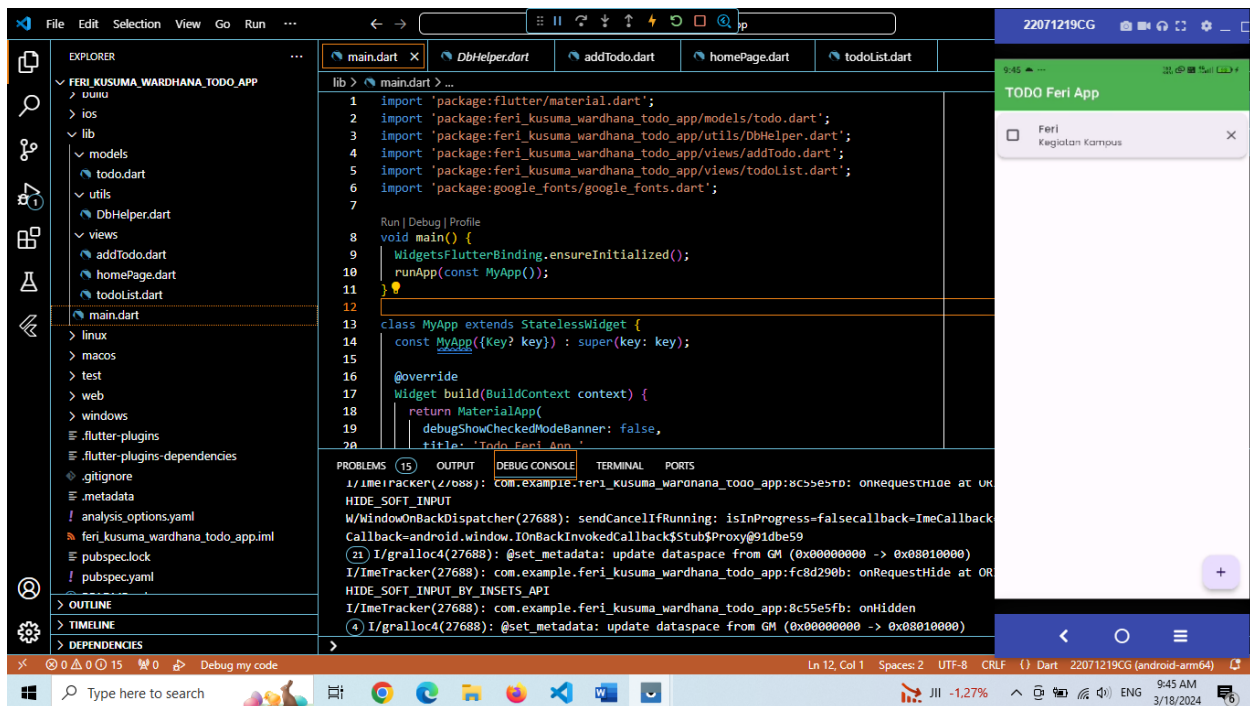


2) Kemudian saat klik floating tambah maka akan masuk ke tambah todo feri app kemudian fdapat masukkan judul dan deskripsi kemudian klik tambah

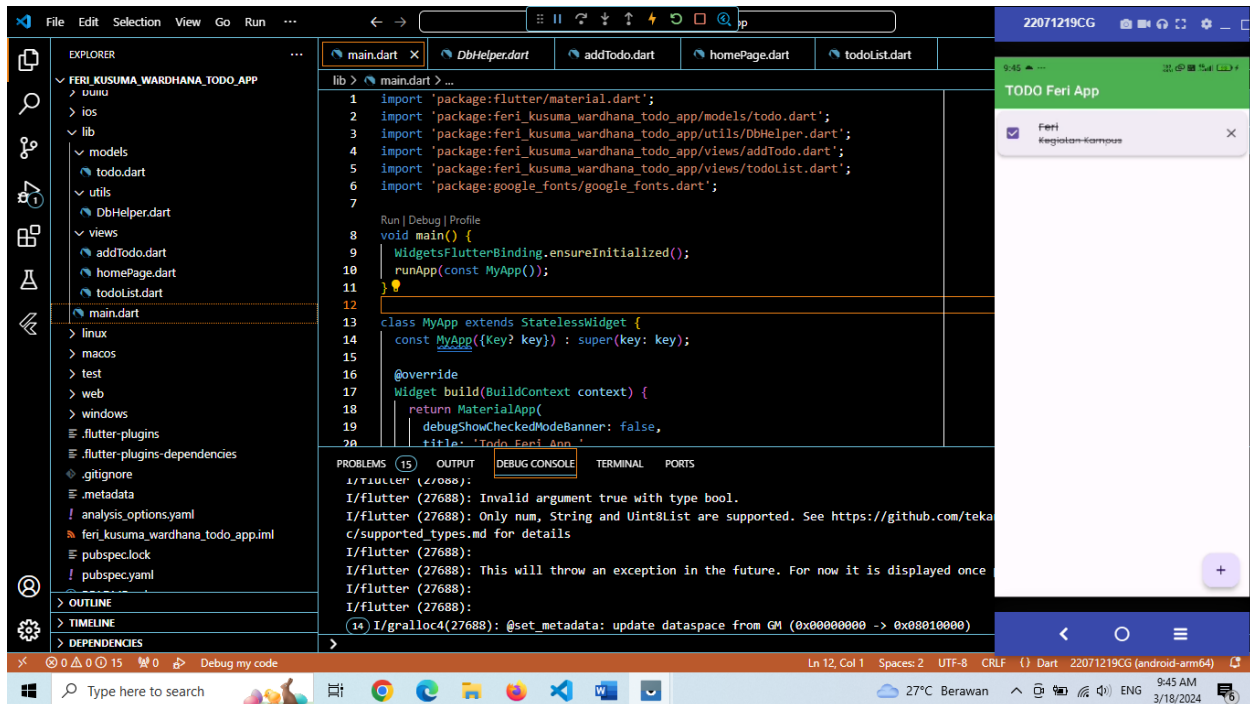




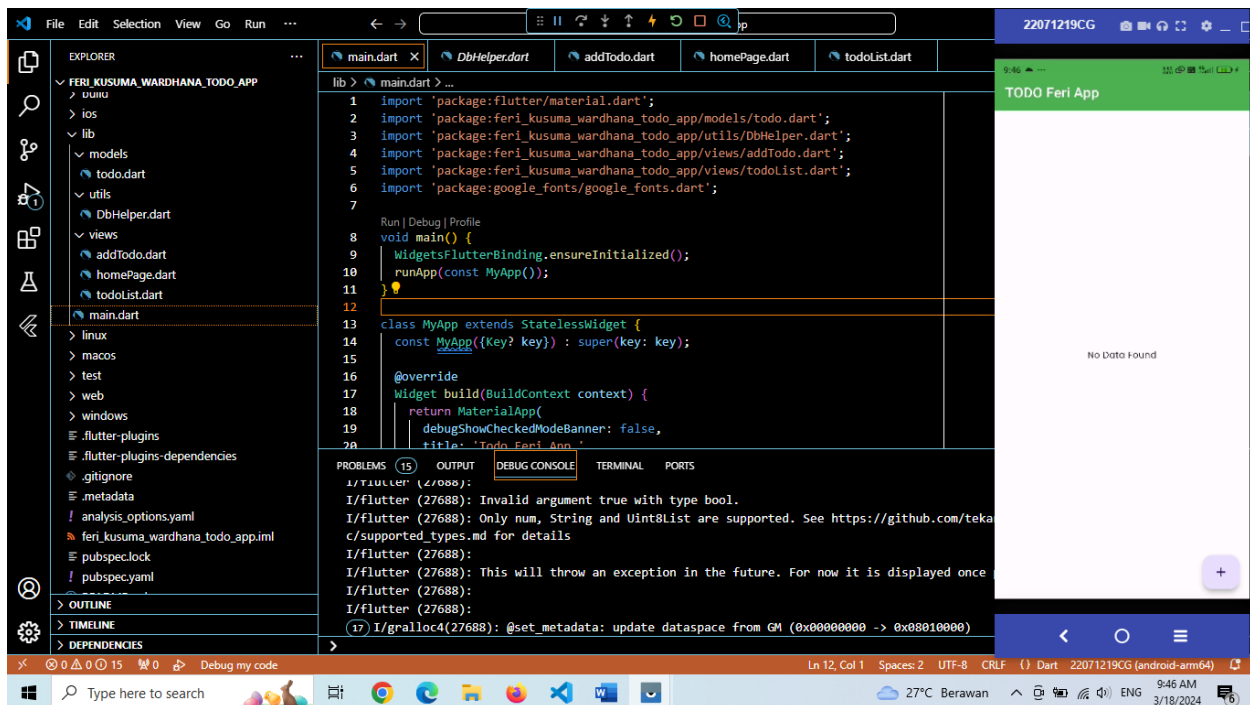
3) Kemudian akan otomatis masuk kehalaman utama



4) Kemudian jika sudah melakukan bisa klik cheklist maka akan tercoret

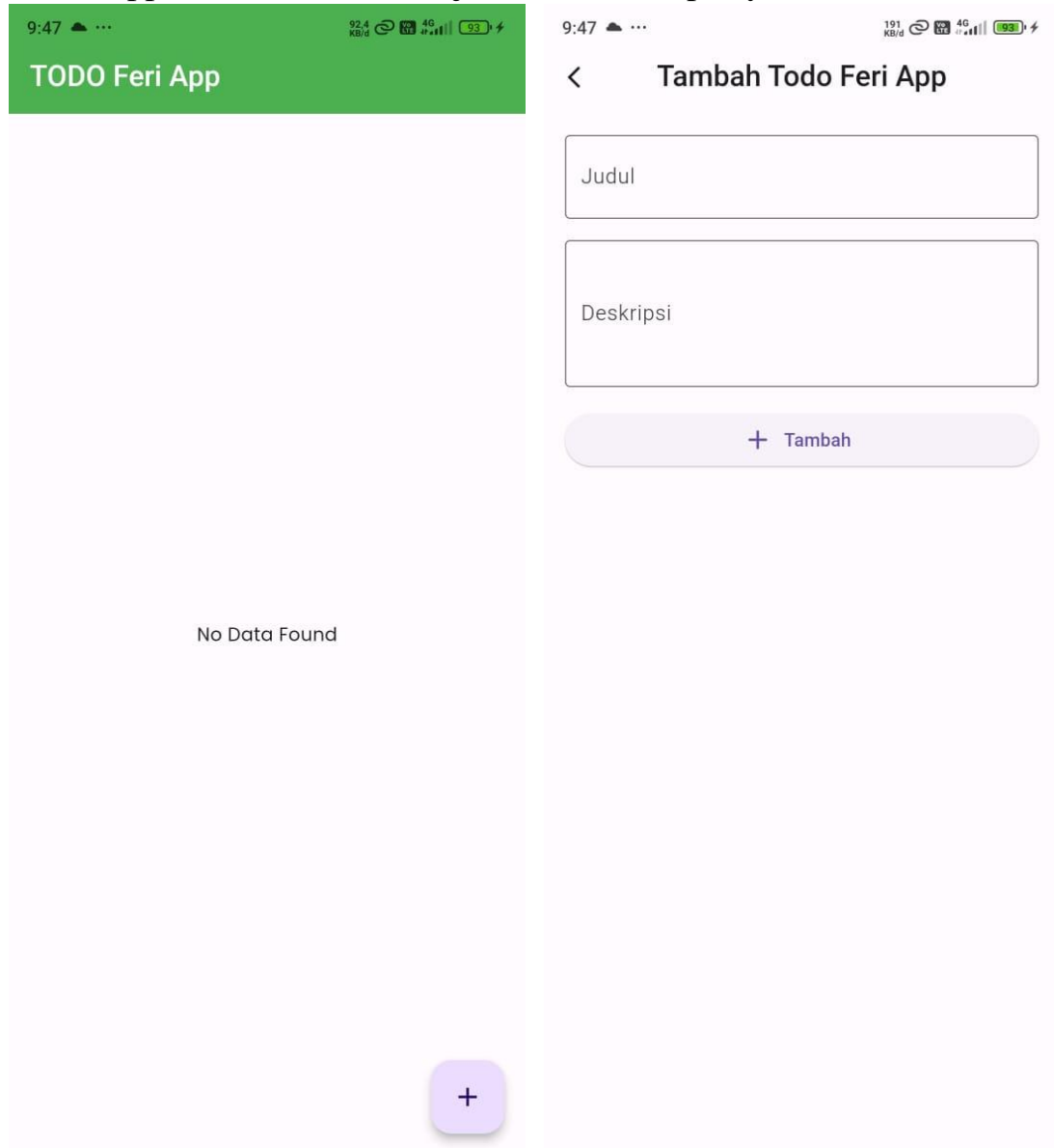


5) Dan jika ingin menghapus maka bisa klik silang maka akan otomatis menghilang

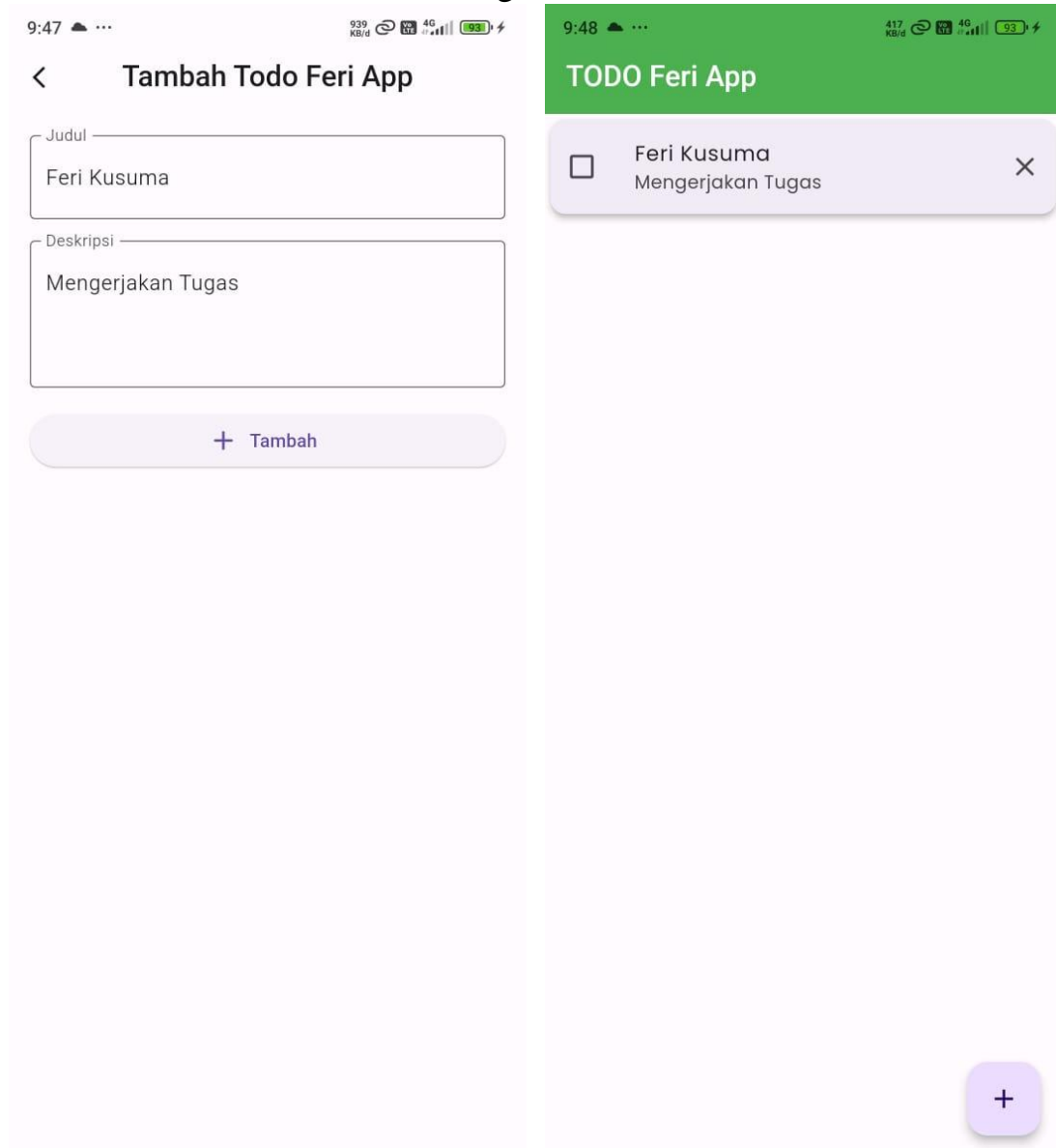


B. Berikut adalah tampilan dari hp

1. Berikut tampilan utama akan seperti dibawah ini , dimana nanti bisa klik floating tambah yang ada di bawah kanan kemudian akan muncul tambah todo feri app dan bisa masukkan judul dan deskripsinya



2. Kemudian klik tambah kemudian data akan masuk ke halaman utama dimana akan ada checklist dan silang



3. Kemudian jika kegiatan sudah dilakukan bisa klik checklist dan jika ingin menghapus bisa klik silang

