

**LAPORAN PRAKTIKUM**  
**MATA KULIAH PEMROGRAMAN MOBILE**

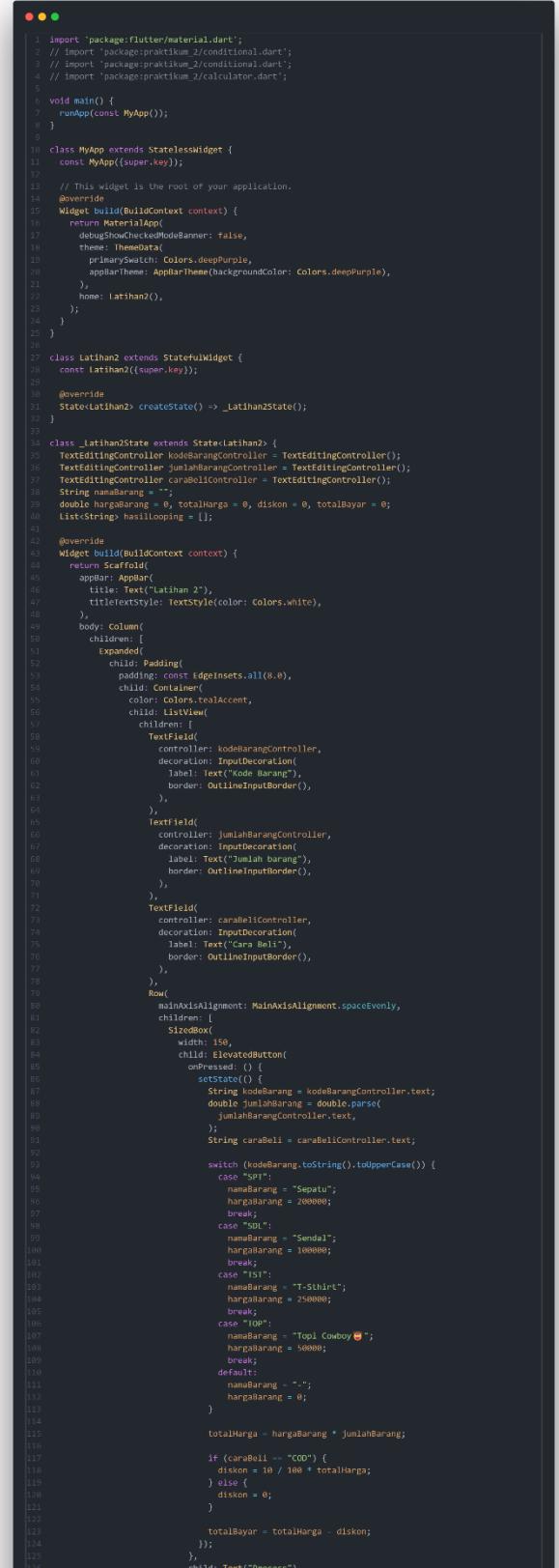


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## 1. Kode

Implementasi pada praktikum kedua berupa conditionl dan looping, untuk conditional digunakan switch case, if else, dan thernary operator. Dalam implementasi looping dilakukan tiga jenis loop, for loop, while loop, dan for in untuk loop list.



```
1 import 'package:flutter/material.dart';
2 // import 'package:praktikum_2/conditional.dart';
3 // import 'package:praktikum_2/calculator.dart';
4 // import 'package:praktikum_2/list.dart';
5
6 void main() {
7   runApp(const MyApp());
8 }
9
10 class MyApp extends StatelessWidget {
11   const MyApp({super.key});
12
13   // This widget is the root of your application.
14   @override
15   Widget build(BuildContext context) {
16     return MaterialApp(
17       debugShowCheckedModeBanner: false,
18       theme: ThemeData(
19         primarySwatch: Colors.deepPurple,
20         appBarTheme: AppBarTheme(backgroundColor: Colors.deepPurple),
21       ),
22       home: Latihan2(),
23     );
24   }
25 }
26
27 class Latihan2 extends StatefulWidget {
28   const Latihan2({super.key});
29
30   @override
31   State<Latihan2> createState() => _Latihan2State();
32 }
33
34 class _Latihan2State extends State {
35   TextEditingController kodeBarangController = TextEditingController();
36   TextEditingController jumlahBarangController = TextEditingController();
37   TextEditingController caraBayarController = TextEditingController();
38   String namaBarang = "";
39   double hargaBarang = 0, totalHarga = 0, diskon = 0, totalBayar = 0;
40   List<String> hasilLooping = [];
41
42   @override
43   Widget build(BuildContext context) {
44     return Scaffold(
45       appBar: AppBar(
46         title: Text("Latihan 2"),
47         titleTextStyle: TextStyle(color: Colors.white),
48       ),
49       body: Column(
50         children: [
51           Expanded(
52             child: Padding(
53               padding: const EdgeInsets.all(8.0),
54               child: Container(
55                 color: Colors.tealAccent,
56                 child: ListView(
57                   children: [
58                     TextField(
59                       controller: kodeBarangController,
60                       decoration: InputDecoration(
61                         label: Text("Kode Barang"),
62                         border: OutlineInputBorder(),
63                       ),
64                     ),
65                     TextField(
66                       controller: jumlahBarangController,
67                       decoration: InputDecoration(
68                         label: Text("Jumlah barang"),
69                         border: OutlineInputBorder(),
70                       ),
71                     ),
72                     TextField(
73                       controller: caraBayarController,
74                       decoration: InputDecoration(
75                         label: Text("Cara Bayar"),
76                         border: OutlineInputBorder(),
77                       ),
78                     ),
79                     Row(
80                       mainAxisAlignment: MainAxisAlignment.spaceEvenly,
81                       children: [
82                         SizedBox(
83                           width: 150,
84                           child: ElevatedButton(
85                             onPressed: () {
86                               setState(() {
87                                 String kodeBarang = kodeBarangController.text;
88                                 double jumlahBarang = double.parse(
89                                   jumlahBarangController.text,
90                                 );
91                                 String caraBayar = caraBayarController.text;
92
93                                 switch (kodeBarang.toUpperCase()) {
94                                   case "SRT":
95                                     namaBarang = "Sepatu";
96                                     hargaBarang = 200000;
97                                     break;
98                                   case "SOL":
99                                     namaBarang = "Sendal";
100                                    hargaBarang = 100000;
101                                    break;
102                                   case "T11":
103                                     namaBarang = "T-Shirt";
104                                     hargaBarang = 250000;
105                                     break;
106                                   case "TOP":
107                                     namaBarang = "Topi Cowboy";
108                                     hargaBarang = 50000;
109                                     break;
110                                   default:
111                                     namaBarang = "-";
112                                     hargaBarang = 0;
113                                 }
114
115                                 totalHarga = hargaBarang * jumlahBarang;
116
117                                 if (caraBayar == "COD") {
118                                   diskon = 10 / 100 * totalHarga;
119                                 } else {
120                                   diskon = 0;
121                                 }
122
123                                 totalBayar = totalHarga - diskon;
124                               });
125                             child: Text("Proses"),
126                           ),
127                         ],
128                       ),
129                     ],
130                   ),
131                 ),
132               ),
133             ],
134           ),
135         ],
136       ),
137     );
138   }
139 }
```

```
127         child: Text("Reset"),
128     ),
129     ),
130     SizedBox(
131         width: 150,
132         child: ElevatedButton(
133             onPressed: () {
134                 kodeBarangController.clear();
135                 jumlahBarangController.clear();
136                 caraBelicController.clear();
137                 namaBarang = "";
138                 hargaBarang = 0;
139                 totalHarga = 0;
140                 diskon = 0;
141                 totalBayar = 0;
142             });
143         },
144         child: Text("Clear"),
145     ),
146     ],
147 ),
148 ),
149 Text("Nama Barang : $namaBarang"),
150 Text("Harga Barang : $hargaBarang"),
151 Text("Total Harga : $totalHarga"),
152 Text("Diskon : $diskon"),
153 Text("Total Bayar : $totalBayar"),
154 ],
155 ),
156 ),
157 ),
158 ),
159 Expanded(
160     child: Container(
161         color: Colors.blueAccent,
162         width: MediaQuery.of(context).size.width,
163         child: Wrap(
164             spacing: 8,
165             runSpacing: 8,
166             children: [
167                 ElevatedButton(
168                     onPressed: () {
169                         hasilLooping.clear();
170                         for (var i = 0; i < 100; i++) {
171                             hasilLooping.add(i.toString());
172                         }
173                         setState(() {});
174                     },
175                     child: Text("Looping dengan For"),
176                 ),
177                 ElevatedButton(
178                     onPressed: () {
179                         setState(() {
180                             hasilLooping.clear();
181                             int num = 1;
182                             while (num < 100) {
183                                 hasilLooping.add(num.toString());
184                                 num += 5;
185                             }
186                         });
187                     },
188                     child: Text("Looping dengan While Loop"),
189                 ),
190                 ElevatedButton(
191                     onPressed: () {
192                         setState(() {
193                             hasilLooping.clear();
194                             List<String> warna = [
195                                 "Merah",
196                                 "Kuning",
197                                 "Hijau",
198                                 "Biru",
199                                 "Ungu",
200                             ];
201                             for (var element in warna) {
202                                 hasilLooping.add(
203                                     (element.toString().contains("a")) ? element : "-",
204                                 );
205                             }
206                         });
207                     },
208                     child: Text("Looping dengan For In"),
209                 ),
210                     Text("Hasil Looping : \n$hasilLooping"),
211                 ],
212             ),
213         ),
214     ],
215     ),
216     ),
217 );
218 }
219 }
```

## 2. Hasil

