

LAPORAN PRAKTIKUM
MATA KULIAH PEMROGRAMAN MOBILE



Oleh :

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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/conditional.dart';
4 // import 'package:praktikum_2/calculator.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<latihan2> {
35   TextEditingController kodeBarangController = TextEditingController();
36   TextEditingController jumlahBarangController = TextEditingController();
37   TextEditingController caraBeliController = 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: caraBeliController,
74                       decoration: InputDecoration(
75                         label: Text("Cara Beli"),
76                         border: OutlineInputBorder(),
77                       ),
78                     ),
79                   ],
80                 ),
81               ),
82             ),
83             child: Row(
84               mainAxisAlignment: MainAxisAlignment.spaceEvenly,
85               children: [
86                 SizedBox(
87                   width: 150,
88                   child: ElevatedButton(
89                     onPressed: () {
90                       setState(() {
91                         String kodeBarang = kodeBarangController.text;
92                         double jumlahBarang = double.parse(
93                           jumlahBarangController.text,
94                         );
95                         String caraBeli = caraBeliController.text;
96
97                         switch (kodeBarang.toString().toUpperCase()) {
98                           case "SPI":
99                             namaBarang = "Sepatu";
100                             hargaBarang = 200000;
101                             break;
102                           case "SDI":
103                             namaBarang = "Sandal";
104                             hargaBarang = 100000;
105                             break;
106                           case "ISI":
107                             namaBarang = "T-Shirt";
108                             hargaBarang = 250000;
109                             break;
110                           case "IDP":
111                             namaBarang = "Topi Cowboy 🤠";
112                             hargaBarang = 50000;
113                             break;
114                           default:
115                             namaBarang = "-";
116                             hargaBarang = 0;
117                         }
118
119                         totalHarga = hargaBarang * jumlahBarang;
120
121                         if (caraBeli == "COD") {
122                           diskon = 10 / 100 * totalHarga;
123                         } else {
124                           diskon = 0;
125                         }
126
127                         totalBayar = totalHarga - diskon;
128                       });
129                     },
130                     child: Text("Prosess"),
131                   ),
132                 ),
133               ],
134             ),
135           ),
136         ],
137       ),
138     );
139   }
140 }
```

```

128      child: Text("Process"),
129    ),
130    ),
131    child: ElevatedButton(
132      onPressed: () {
133        setState(() {
134          kodeBarangController.clear();
135          jumlahBarangController.clear();
136          caraBeliController.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 }
220

```

2. Hasil

