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Praktikum 1

Langkah 1

```
 1 void main(){
 2   String test = "test2";
 3 if(test == "test1") {
 4   print("Test1");
 5 }else if (test == "test2") {
 6   print("Test2");
 7 }else {
 8   print("Something else");
 9 }
10
11 if(test == "test2") print("Test2 again");
12 }
```

Test2
Test2 again

Langkah 2

Karena variabel test bernilai 'test2', percabangan-percabangan yang memvalidasi test2 mencetak 'Test2' dan 'Test2 again'

Langkah 3

```
String test = "true";
if (test) {
    print("Kebenaran");
}
```

```
compileDDC
main.dart:12:10: Error: 'test' is already declared in this scope.
  String test = "true";
         ^^^^
main.dart:2:10: Context: Previous declaration of 'test'.
  String test = "test2";
         ^^^^
main.dart:13:5: Error: A value of type 'String' can't be assigned to a variable of
type 'bool'.
if (test) {
    ^
```

Praktikum 2

Langkah 1

```
1 void main(){
2   while (counter < 33) {
3     print(counter);
4     counter++;
5   }
6 }
```

```
compileDDC
main.dart:2:10: Error: Undefined name 'counter'.
  while (counter < 33) {
         ^^^^^^^
main.dart:3:11: Error: Undefined name 'counter'.
    print(counter);
          ^^^^^^^
main.dart:4:5: Error: Getter not found: 'counter'.
    counter++;
    ^^^^^^^
```

Langkah 2

Terjadi error karena counter belum berisi nilai

```
1 void main(){
2   int counter = 0;
3   while (counter < 33) {
4     print(counter);
5     counter++;
6   }
7 }
```

```
0
1
2
3
4
5
6
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10
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27
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29
30
```

Langkah 3

```
1  void main(){
2    int counter = 0;
3    while (counter < 33) {
4      print(counter);
5      counter++;
6    }
7    do {
8      print(counter);
9      counter++;
10   } while (counter < 77);
11 }
```

```
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```

Praktikum 3

Langkah 1

```
1  void main(){
2    for (Index = 10; index < 27; index) {
3      print(Index);
4    }
5  }
```

Compilation failed

⊘ Undefined name 'Index'.	line 2, col 8
Try correcting the name to one that is defined, or defining the name.	
⊘ Undefined name 'index'.	line 2, col 20
Try correcting the name to one that is defined, or defining the name.	
⊘ Undefined name 'index'.	line 2, col 32
Try correcting the name to one that is defined, or defining the name.	

```
compileDDC
main.dart:2:20: Error: Undefined name 'index'.
  for (Index = 10; index < 27; index) {
                   ^^^^^
main.dart:3:11: Error: Undefined name 'Index'.
    print(Index);
          ^^^^^
main.dart:2:32: Error: Undefined name 'index'.
  for (Index = 10; index < 27; index) {
                               ^^^^^
main.dart:2:8: Error: Setter not found: 'Index'.
  for (Index = 10; index < 27; index) {
       ^^^^^
```

Langkah 2

```
1 void main(){
2   for (int index = 10; index < 27; index++) {
3     print(index);
4   }
5 }
```

Run

```
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21
22
23
24
25
26
```

Langkah 3

```
1 void main(){
2   for (int index = 10; index < 27; index++) {
3     print(index);
4     if(index == 21) break;
5     else if (index > 1 || index < 7) continue;
6     print(index);
7   }
8 }
```

Run

```
10
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15
16
17
18
19
20
21
```