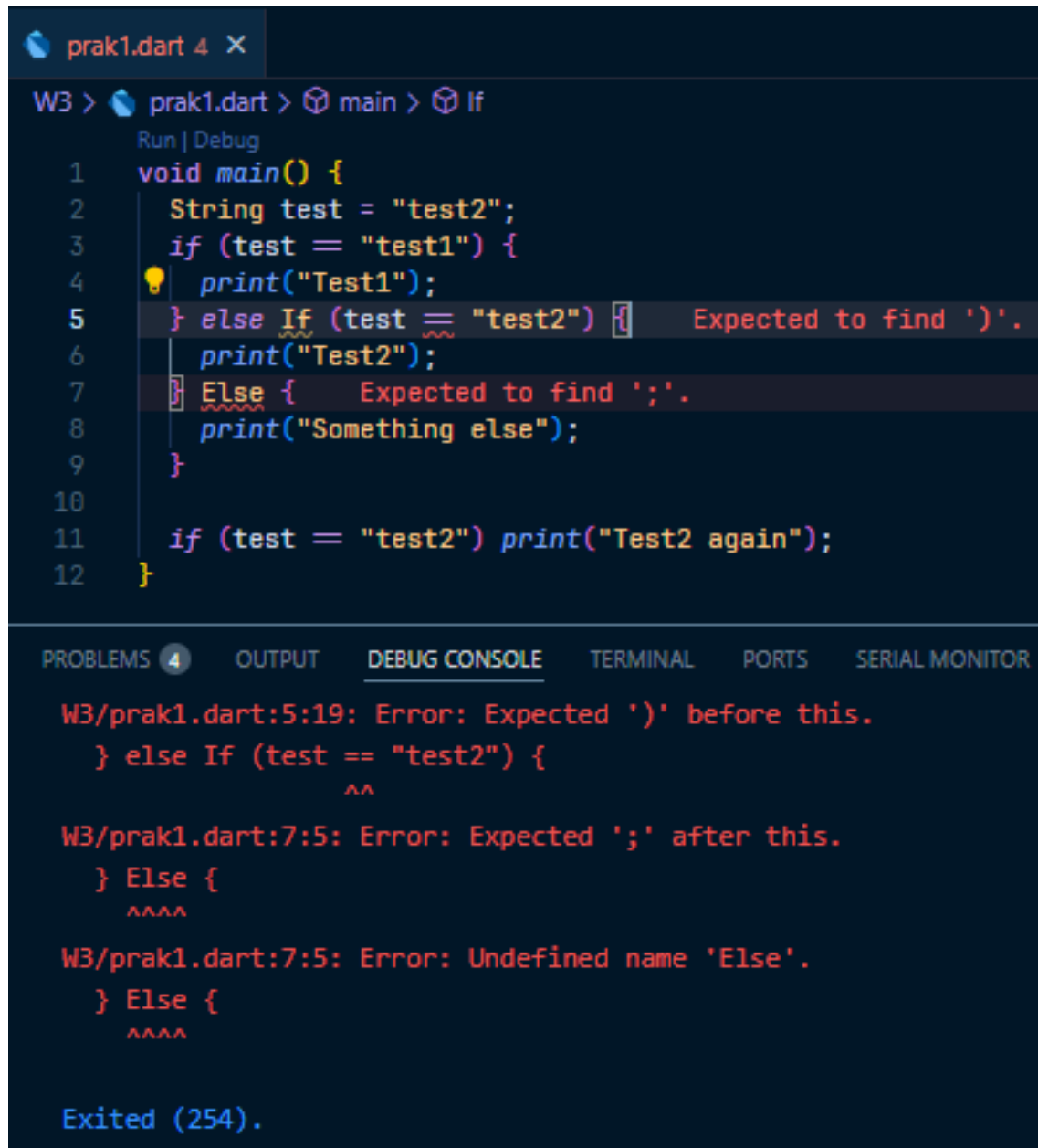# PEMROGRAMAN MOBILE

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**PROGRAM STUDI D-IV TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
JAWA TIMUR
2025**

Tugas Praktikum

Soal 1

Praktikum 1


```dart
void main() {
  String test = "test2";
  if (test == "test1") {
    print("Test1");
  } else If (test == "test2") {     Expected to find ')'.
    print("Test2");
  } Else {     Expected to find ';'.
    print("Something else");
  }

  if (test == "test2") print("Test2 again");
}
```

```
PROBLEMS 4    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    SERIAL MONITOR

 W3/prak1.dart:5:19: Error: Expected ')' before this.
   } else If (test == "test2") {
                     ^^

 W3/prak1.dart:7:5: Error: Expected ';' after this.
   } Else {
     ^^^^

 W3/prak1.dart:7:5: Error: Undefined name 'Else'.
   } Else {
     ^^^^


 Exited (254).
```

Kode tersebut error karena syntax pada dart menggunakan huruf kecil pada awall syntax, dan dart ini case-sensitive.

```
prak1.dart 7 ✕

W3 > prak1.dart > main
        Run | Debug
    1    void main() {
    2      String test = "test2";
    3      if (test == "test1") {
    4        print("Test1");
    5      } else If (test == "test2") {    Expected to find ')'.
    6        print("Test2");
    7      } Else {    Expected to find ';'.
    8        print("Something else");
    9      }
   10
   11      if (test == "test2") print("Test2 again");
   12    💡
   13      String test = "true";    The name 'test' is already defined.⏎Try renaming one of the declarat
   14      if (test) {    Conditions must have a static type of 'bool'.⏎Try changing the condition.
   15        print("Kebenaran");
   16      }
   17    }

PROBLEMS 7   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SERIAL MONITOR          Filter (e.g. text, !exclude, \escap
  } else if (test == test2) {
                      ^^
W3/prak1.dart:7:5: Error: Expected ';' after this.
  } Else {
    ^^^^
W3/prak1.dart:7:5: Error: Undefined name 'Else'.
  } Else {
    ^^^^
W3/prak1.dart:13:10: Error: 'test' is already declared in this scope.
  String test = "true";
         ^^^^
W3/prak1.dart:2:10: Context: Previous declaration of 'test'.
  String test = "test2";
         ^^^^
W3/prak1.dart:14:7: Error: A value of type 'String' can't be assigned to a variable of type 'bool'.
  if (test) {
      ^
```

untuk ini, karane variabel bernama test sudah di definisikan, dia tidak bisa di definisikan ulang.

```dart
void main() {
  if (test == "test1") {
    print("Test1");
  } else if (test == "test2") {
    print("Test2");
  } else {
    print("Something else");
  }

  if (test == "test2") print("Test2 again");

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

PROBLEMS   OUTPUT   **DEBUG CONSOLE**   TERMINAL   PORTS   SERIAL MONITOR

```
Connecting to VM Service at ws://127.0.0.1:12601/28nejMqNdNQ=/ws
Connected to the VM Service.
Test2
Test2 again
Kebenaran

Exited.
```

Praktikum 2

```
1   void main() {
2     while (counter < 33) {     Undefined name 'counter'.⏎Try co
3       print(counter);     Undefined name 'counter'.⏎Try correct
4       counter++;     Undefined name 'counter'.⏎Try correcting t
5   }
6   }
```

Terminal (Ctrl+`)

PROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SERIAL MONITOR

```
W3/prak2.dart:2:10: Error: Undefined name 'counter'.
  while (counter < 33) {
         ^^^^^^^
W3/prak2.dart:3:11: Error: Undefined name 'counter'.
    print(counter);
          ^^^^^^^
W3/prak2.dart:4:5: Error: Getter not found: 'counter'.
    counter++;
    ^^^^^^^

Exited (254).
```

variable counter tidak terdefinisi.

```dart
W3 > prak2.dart > main
    Run | Debug
1   void main() {
2     int counter = 0;
3
4     while (counter < 33) {
5       print(counter);
6       counter++;
7     }
8
9     do {
10      print(counter);
11      counter++;
12    } while (counter < 77);
13  }
14
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76

Exited.
```

program akan melanjutkan looping dan print variable counter dari 33   76.

Praktikum 3

```
Run | Debug
1    void main() {
2      for (Index = 10; index < 27; index) {    Undefine
3        print(Index);    Undefined name 'Index'. Try c
4      }
5    }
```

PROBLEMS ④   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SERIAL

```
W3/prak3.dart:2:20: Error: Undefined name 'index'.
  for (Index = 10; index < 27; index) {
                   ^^^^^

W3/prak3.dart:3:11: Error: Undefined name 'Index'.
    print(Index);
          ^^^^^

W3/prak3.dart:2:32: Error: Undefined name 'index'.
  for (Index = 10; index < 27; index) {
                               ^^^^^

W3/prak3.dart:2:8: Error: Setter not found: 'Index'.
  for (Index = 10; index < 27; index) {
       ^^^^^


Exited (254).
```

pada kode tersebut, karena dart itu case-sensitive, maka variable `Index` & `index` tidaklah sama, dan juga definisi variable `Index` tidak diberi tipe data. lalu karena index tidak di increment, maka akan menjadi infinite loop.

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

```
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
```



```
1  void main() {
2    for (int index = 10; index < 27; index++) {    Dead code. Try removing the code, or fixing the code before it so that
3      If (Index == 21) break;    Expected to find ';'.
4      Else If (index > 1 || index < 7) continue;    Expected to find ';'.
5      print(index);
6    }
7  }
```

```
prak3.dart:3:20: Error: Expected ';' after this.
    If (Index == 21) break;

prak3.dart:4:5: Error: 'Else' isn't a type.
    Else If (index > 1 || index < 7) continue;
    ^^^^
prak3.dart:3:5: Error: Local variable 'If' can't be referenced before it is declared.
    If (Index == 21) break;
    ^^
prak3.dart:4:10: Context: This is the declaration of the variable 'If'.
    Else If (index > 1 || index < 7) continue;
         ^^
prak3.dart:4:10: Error: Expected ';' after this.
    Else If (index > 1 || index < 7) continue;
         ^^
prak3.dart:4:36: Error: Expected ';' after this.
    Else If (index > 1 || index < 7) continue;
                                   ^
```

Sama seperti di praktikum 1, karena dart itu case-sensitive maka dart akan error. dan terdapat logic error pada if else.

```dart
     Run | Debug
1    void main() {
2      for (int index = 10; index < 27; index++) {
3        if (index == 21)
4          break;
5        else if (index > 1 && index < 7) continue;
6        print(index);
7      }
8    }
9
```

PROBLEMS   **OUTPUT**   DEBUG CONSOLE   TERMINAL   ⋯   Filter   Code ⌄   ≡ 🔒 ⋯ | ⌗ ×

```
prak3.dart:4:36: Error: Expected ';' after this.
    Else If (index > 1 || index < 7) continue;

[Done] exited with code=254 in 0.88 seconds

[Running] dart "d:\Kuliah\Sem 5\MOBILE\W3\prak3.dart"
10
11
12
13
14
15
16
17
18
19
20

[Done] exited with code=0 in 1.146 seconds
```