

**LAPORAN  
PRAKTIKUM PEMROGRAMAN MOBILE**

**JOBSHEET 3**



**Oleh :**

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## Praktikum 1 : Menerapkan Control Flows ("if/else")

### Langkah 1

```
Run | Debug | Windsurf: Refactor | Explain | Generate Function Comment | X
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");
}
```

EMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Connecting to VM Service at ws://127.0.0.1:61382/lREx1yhHRPE=/ws  
Connected to the VM Service.  
temuan%203/Praktikum1.dart:23:19: Error: Expected ')' before this.  
 else If (test == "test2") {  
 ^  
temuan%203/Praktikum1.dart:25:5: Error: Expected ';' after this.  
 Else {  
 ^  
temuan%203/Praktikum1.dart:25:5: Error: Undefined name 'Else'.  
 Else {  
 ^

Pada output yang dihasilkan setelah dijalankan terjadi error karena penulisan if else yang salah.

### Langkah 2

```
String test2 = "true";
if (test2) { Conditions must have a static type of 'bool'. Try changi
  print("Kebenaran");
}

// void main(){
```

EMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter (e.g. text, lexclude, \esc...

Connecting to VM Service at ws://127.0.0.1:51612/\_EowcvfeS\_w=/ws  
Connected to the VM Service.  
temuan%203/Praktikum1.dart:14:7: Error: A value of type 'String' can't be assigned to a variable of type 'bool'.  
if (test2) {  
 ^

Terjadi error karena kondisi yang dicek tipenya string tapi yang dimasukan bertipe Boolean.  
berikut perbaikannya:

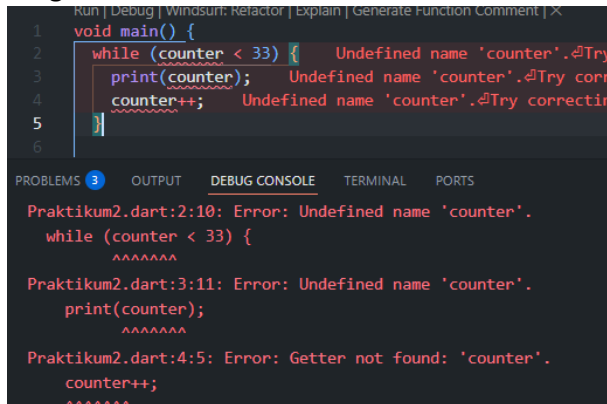
```
String test2 = "true";
14 if (test2=="true") {
15   print("Kebenaran");
16 }
17 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter (e.g. text, lexclude, \esc...

Connecting to VM Service at ws://127.0.0.1:54600/9oZJMcfGt38=/ws  
Connected to the VM Service.  
Test2  
Test2 again  
Kebenaran

## Praktikum 2 : Menerapkan Perulangan "while" dan "do-while"

### Langkah 1

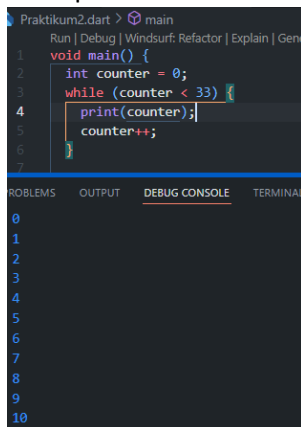


```
1 void main() {  
2   while (counter < 33) {  
3     print(counter);  
4     counter++;  
5   }  
6 }
```

Praktikum2.dart:2:10: Error: Undefined name 'counter'.  
while (counter < 33) {  
 ^^^^^^^  
  
Praktikum2.dart:3:11: Error: Undefined name 'counter'.  
print(counter);  
 ^^^^^^^  
  
Praktikum2.dart:4:5: Error: Getter not found: 'counter'.  
counter++;  
 ^^^^^

Terjadi error karena tidak ada variable counter yang dideklarasikan sebelumnya.

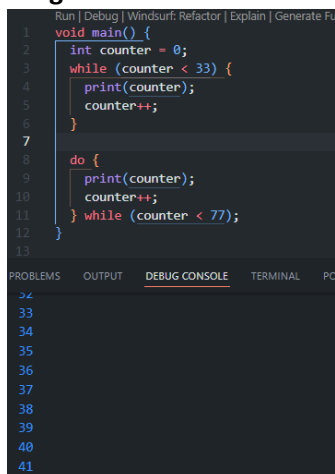
Kode perbaikan:



```
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  
7  
8  
9  
10

### Langkah 2



```
1 void main() {  
2   int counter = 0;  
3   while (counter < 33) {  
4     print(counter);  
5     counter++;  
6   }  
7  
8   do {  
9     print(counter);  
10    counter++;  
11  } while (counter < 77);  
12 }  
13 }
```

32  
33  
34  
35  
36  
37  
38  
39  
40  
41

Tidak terjadi error karena variable counter sudah dideklarasikan sebelumnya

## Praktikum 3 : Menerapkan Perulangan "for" dan "break-continue"

### Langkah 1

```
void main(){
  for (index = 10; index < 27; index) {
    print(index);
  }
}
```

aktikum3.dart:2:20: Error: Undefined name 'index'.  
for (index = 10; index < 27; index) {  
 ^^^^^  
aktikum3.dart:3:11: Error: Undefined name 'Index'.  
 print(index);  
 ^^^^^  
aktikum3.dart:2:32: Error: Undefined name 'index'

Terjadi error karena variable Index tidak ditemukan, seharusnya dideklarasikan terlebih dahulu.

Kode perbaikan:

```
void main(){
  for (int index = 0; index < 27; index++) {
    print(index);
  }
}
```

0  
1  
2  
3  
4

### Langkah 2

```
void main(){
  for (int index = 0; index < 27; index++) {
    if (index == 21) break;
    else if (index > 1 && index < 7) continue;
    print(index);
  }
}
```

praktikum3.dart:3:9: Error: Undefined name 'Index'.  
 If (Index == 21) break;  
 ^^^^^  
praktikum3.dart:3:5: Error: Method not found: 'If'.  
 If (Index == 21) break;  
 ^  
praktikum3.dart:3:20: Error: Expected ';' after this.  
 If (Index == 21) break;  
 ^

Terjadi error karena adanya kesalahan penulisan pada if else.

Kode perbaikan:

```
void main() {
  for (int index = 1; index < 27; index++) {
    if (index == 21)
      break;
    else if (index > 1 && index < 7)
      continue;
    print(index);
  }
}
```

1  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

## Tugas Praktikum

1. Buatlah sebuah program yang dapat menampilkan bilangan prima dari angka 0 sampai 201 menggunakan Dart. Ketika bilangan prima ditemukan, maka tampilkan nama lengkap dan NIM Anda.

```
void main() {
  String nama = "Farhan Mawaludin";
  String nim = "2341720258";

  for (int i = 2; i <= 201; i++) {
    if (isPrima(i)) {
      print("$i = $nama | NIM: $nim");
    }
  }
}

bool isPrima(int n) {
  if (n < 2) return false;
  for (int i = 2; i * i <= n; i++) {
    if (n % i == 0) return false;
  }
  return true;
}
```

PROBLEMS	OUTPUT	DEBUG CONSOLE	...
	127 = Farhan Mawaludin   NIM: 2341720258		
	131 = Farhan Mawaludin   NIM: 2341720258		
	137 = Farhan Mawaludin   NIM: 2341720258		
	139 = Farhan Mawaludin   NIM: 2341720258		
	149 = Farhan Mawaludin   NIM: 2341720258		
	151 = Farhan Mawaludin   NIM: 2341720258		
	157 = Farhan Mawaludin   NIM: 2341720258		
	163 = Farhan Mawaludin   NIM: 2341720258		
	167 = Farhan Mawaludin   NIM: 2341720258		
	173 = Farhan Mawaludin   NIM: 2341720258		
	179 = Farhan Mawaludin   NIM: 2341720258		
	181 = Farhan Mawaludin   NIM: 2341720258		
	191 = Farhan Mawaludin   NIM: 2341720258		
	193 = Farhan Mawaludin   NIM: 2341720258		
	197 = Farhan Mawaludin   NIM: 2341720258		
	199 = Farhan Mawaludin   NIM: 2341720258		

Link Repo: [FarhanMawaludin/Pemrograman-mobile-2025](https://github.com/FarhanMawaludin/Pemrograman-mobile-2025)