

Soal Branch loop function dart

Soal Prioritas 1 (80)

Tugas Percabangan(Branching)

1. Terdapat sebuah nilai:
 1. jika nilai > 70 akan mereturn "Nilai A"
 2. jika nilai > 40 akan mereturn "Nilai B"
 3. jika nilai > 0 akan mereturn "Nilai C"
 4. selain itu return teks kosong

Tugas Perulangan(Looping)

1. tampilkan nilai 1 - 10 pada layar dengan menggunakan perulangan!

Jawab

nilai

```
1. import 'dart:io';

main(){

  int nilai= 70;
  String grade;

  if(nilai >= 70) grade = "A";
  else if(nilai >= 40) grade = "B";
  else grade = "C";
  print("Nilai");
  print(nilai);
  print(grade);
}
```

```
prio1.dart x prio2.dart
branch loop funtion dart > prio1 > prio1.dart > main
1 import 'dart:io';
2
3 Run | Debug
4 main(){
5     int nilai= 70;
6     String grade;
7
8     if(nilai >= 70) grade = "A";
9     else if(nilai >= 40) grade = "B";
10    else grade = "C";
11    print("Nilai");
12    print(nilai);
13    print(grade);
14
15 }
```

```
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio1> dart pri
o1.dart
Nilai
30
C
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio1> dart pri
o1.dart
Nilai
40
B
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio1> dart pri
o1.dart
Nilai
70
A
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio1> ss
```

Looping

```
import 'dart:io';
void main(){
    var i =0;
    while (i<=10){
        print(i);
        i++;
    }
}
```

```
prio1.dart x prio1.2.dart x prio2.dart
branch loop funtion dart > prio1 > prio1.2.dart > main
1 import 'dart:io';
2 void main(){
3     var i =0;
4     while (i<=10){
5         print(i);
6         i++;
7     }
8 }
```

```
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio1> dart pri
o1.2.dart
0
1
2
3
4
5
6
7
8
9
10
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio1>
```

Soal Prioritas 2 (20)

Tugas Looping

1. Buatlah sebuah piramid

```
import 'dart:io';
void main() {
    for (int a = 5; a >= 1; a--) {
        for (int z = 1; z <= 5; z++) {
            if(z - a + 1 <= 0) {
                stdout.write(' ');
            } else {
```

```

        stdout.write('${z - a + 1} ');
    }
}
print('');
}
}

```

The screenshot shows an IDE with three tabs: `ini.dart`, `segitiga.dart`, and `jampasir.dart`. The `segitiga.dart` tab is active, showing the following code:

```

1  import 'dart:io';
2  void main() {
3      for (int a = 5; a >= 1; a--) {
4          for (int z = 1; z <= 5; z++) {
5              if (z - a + 1 <= 0) {
6                  stdout.write(' ');
7              } else {
8                  stdout.write('${z - a + 1} ');
9              }
10         }
11     }
12     print('');
13 }

```

The terminal on the right shows the command `dart segitiga.dart` being executed, resulting in the following output:

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio2>

```

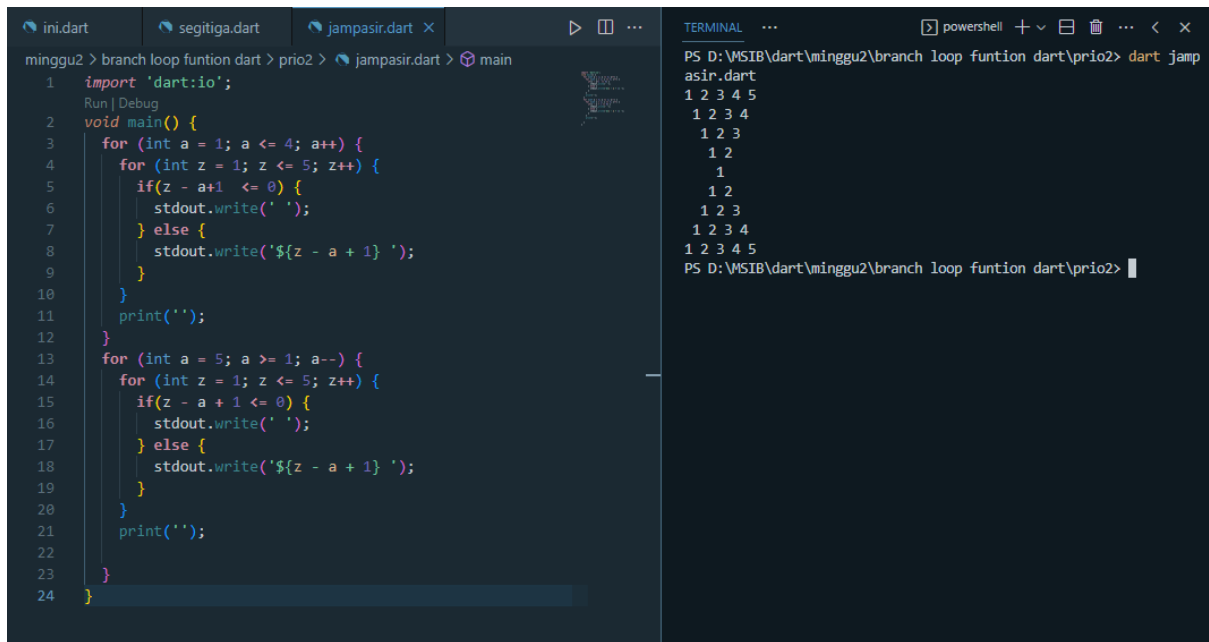
1. Buatlah sebuah jam pasir

```

import 'dart:io';

void main() {
    for (int a = 1; a <= 4; a++) {
        for (int z = 1; z <= 5; z++) {
            if (z - a + 1 <= 0) {
                stdout.write(' ');
            } else {
                stdout.write('${z - a + 1} ');
            }
        }
        print('');
    }
    for (int a = 5; a >= 1; a--) {
        for (int z = 1; z <= 5; z++) {
            if (z - a + 1 <= 0) {
                stdout.write(' ');
            } else {
                stdout.write('${z - a + 1} ');
            }
        }
        print('');
    }
}

```



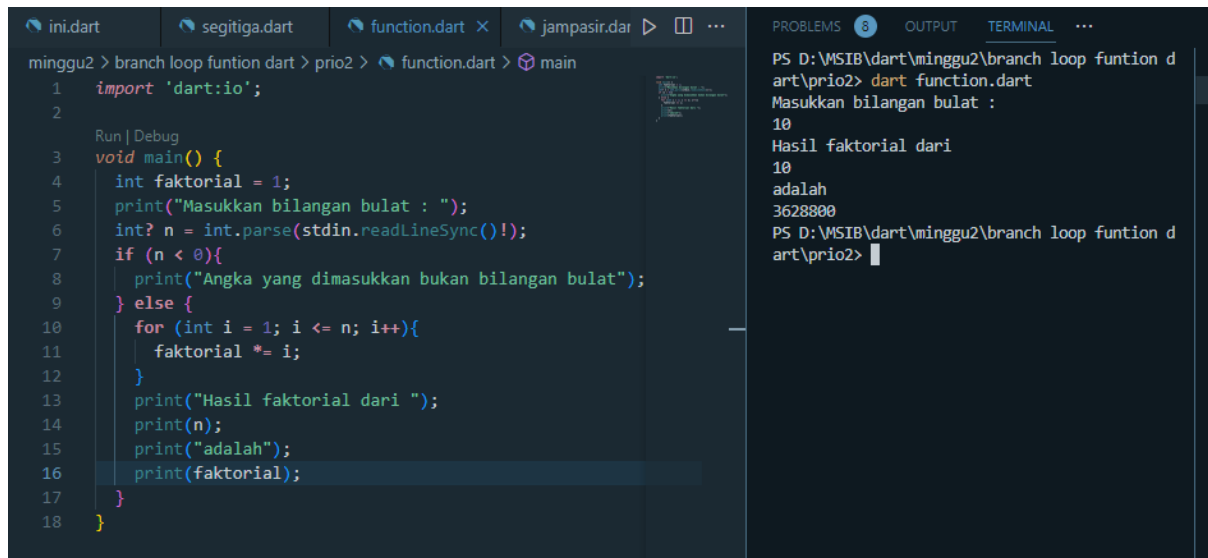
The image shows a code editor with a file named `jamipasir.dart` open. The code is a Dart program that uses nested loops to print a pattern of numbers. The first loop iterates over `a` from 1 to 4, and the second loop iterates over `z` from 1 to 5. For each value of `a`, it prints a row of numbers. The output in the terminal is as follows:

```
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio2> dart jump
asir.dart
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
PS D:\MSIB\dart\minggu2\branch loop funtion dart\prio2>
```

1. tampilkan faktorial dari nilai nilai dibawah in:

1. 10

2. 40

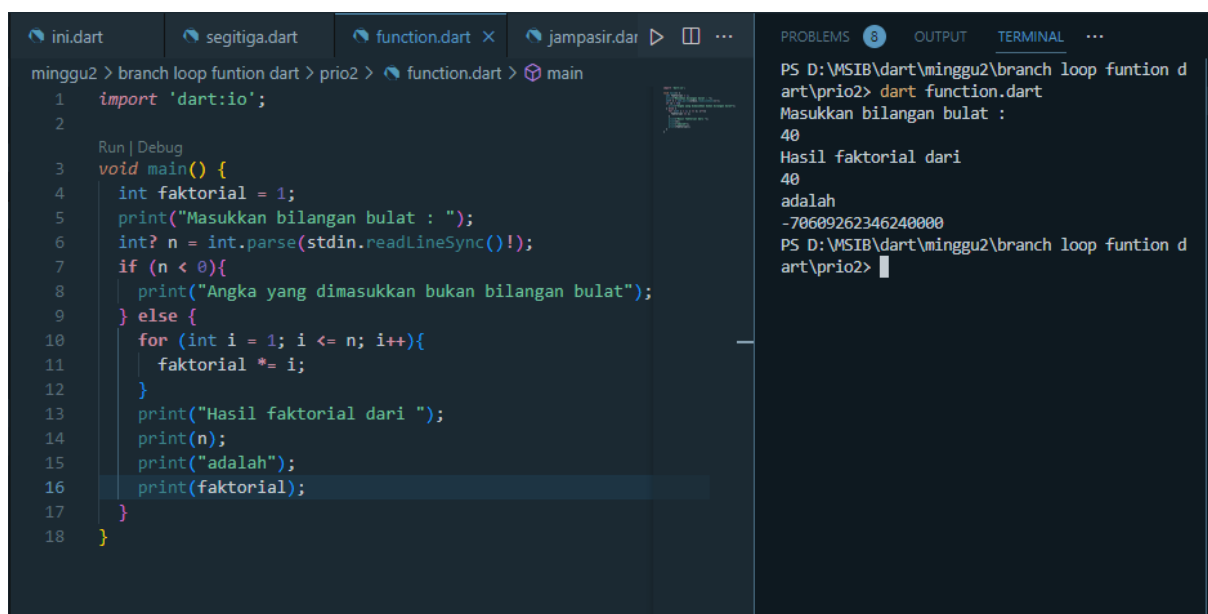


The screenshot shows an IDE with a file explorer at the top containing 'ini.dart', 'segitiga.dart', 'function.dart', and 'jampasir.dar'. The main editor displays the code in 'function.dart' with line numbers 1 through 18. The code is as follows:

```
1 import 'dart:io';
2
3 void main() {
4   int faktorial = 1;
5   print("Masukkan bilangan bulat : ");
6   int? n = int.parse(stdin.readLineSync());
7   if (n < 0){
8     print("Angka yang dimasukkan bukan bilangan bulat");
9   } else {
10    for (int i = 1; i <= n; i++){
11      faktorial *= i;
12    }
13    print("Hasil faktorial dari ");
14    print(n);
15    print("adalah");
16    print(faktorial);
17  }
18 }
```

The right-hand pane shows the terminal output:

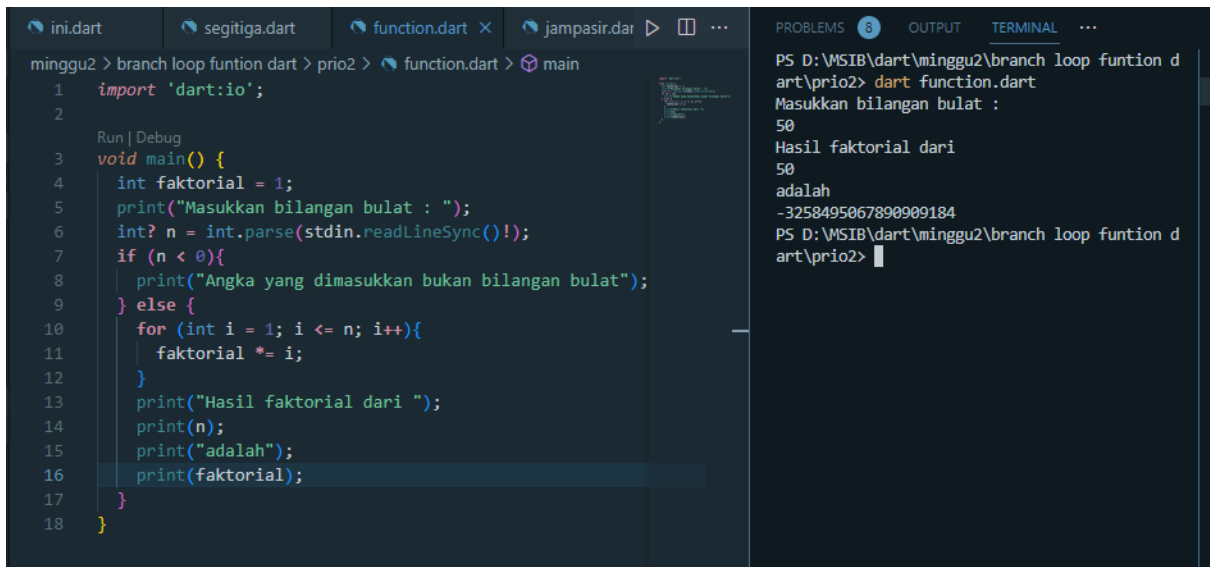
```
PS D:\MSIB\dart\minggu2\branch loop funtion d
art\prio2> dart function.dart
Masukkan bilangan bulat :
10
Hasil faktorial dari
10
adalah
3628800
PS D:\MSIB\dart\minggu2\branch loop funtion d
art\prio2>
```



The screenshot shows the same IDE with the same code in 'function.dart'. The terminal output now shows the result for input 40:

```
PS D:\MSIB\dart\minggu2\branch loop funtion d
art\prio2> dart function.dart
Masukkan bilangan bulat :
40
Hasil faktorial dari
40
adalah
-70609262346240000
PS D:\MSIB\dart\minggu2\branch loop funtion d
art\prio2>
```

3. 50



```
ini.dart | segitiga.dart | function.dart X | jampasir.dar ▶ □ ...
minggu2 > branch loop funtion dart > prio2 > function.dart > main
1  import 'dart:io';
2
3  Run | Debug
4  void main() {
5      int faktorial = 1;
6      print("Masukkan bilangan bulat : ");
7      int? n = int.parse(stdin.readLineSync()!);
8      if (n < 0){
9          print("Angka yang dimasukkan bukan bilangan bulat");
10     } else {
11         for (int i = 1; i <= n; i++){
12             faktorial *= i;
13         }
14         print("Hasil faktorial dari ");
15         print(n);
16         print("adalah");
17         print(faktorial);
18     }
19 }
```

PROBLEMS 8 OUTPUT TERMINAL ...

```
PS D:\MSIB\dart\minggu2\branch loop funtion d
art\prio2> dart function.dart
Masukkan bilangan bulat :
50
Hasil faktorial dari
50
adalah
-3258495067890909184
PS D:\MSIB\dart\minggu2\branch loop funtion d
art\prio2>
```

Tugas Function

1. Buatlah sebuah function dengan parameter untuk menghitung luas lingkaran. kemudian function lingkaran tersebut dijalankan pada function main!

```
2. import 'dart:io';
3.
4. void main() {
5.     int faktorial = 1;
6.     print("Masukkan bilangan bulat : ");
7.     int? n = int.parse(stdin.readLineSync()!);
8.     if (n < 0){
9.         print("Angka yang dimasukkan bukan bilangan bulat");
10.    } else {
11.        for (int i = 1; i <= n; i++){
12.            faktorial *= i;
13.        }
14.        print("Hasil faktorial dari ");
15.        print(n);
16.        print("adalah");
17.        print(faktorial);
18.    }
19. }
```