

# **LAPORAN PRAKTIKUM JOBSHEET 3**

## **“Percabangan, Perulangan, dan Operasi Git Lanjutan”**



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SIB-3D/20

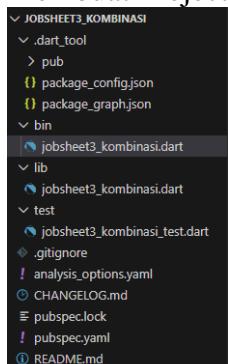
**D-IV SISTEM INFORMASI BISNIS**  
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## Pertanyaan:

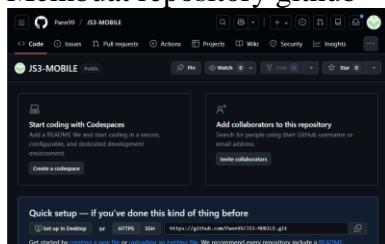
1. Buat program Dart sederhana yang menggunakan kombinasi percabangan dan perulangan untuk menyelesaikan masalah. Contoh: program untuk menghitung faktorial, cek bilangan prima, atau game tebak angka.
  2. Buat repository GitHub untuk program tersebut dengan minimal 3 branch dan 5 commit yang menunjukkan perkembangan fitur.

Jawaban:

- ## 1. Membuat Project Dart baru



- ## 2. Membuat repository github



- 3 Commit pertama (Membuat project dart)

```
Commit pertama (Membuat project dart)
PS> cd ..\VOLNIMANSEMESTER_5\PROGRAMMOBILE\jobsheet3\jobsheet3_kombinas1> git add .
warning: in the working copy of 'gitignore', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'CHANGELOG.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'analysis_options.yaml', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'bin\jobsheet3_kombinas1.dart', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'lib\jobsheet3_kombinas1.dart', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'pubspec.yaml', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'test\jobsheet3_kombinas1_test.dart', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'test\jobsheet3_kombinas1_test.dart', LF will be replaced by CRLF the next time Git touches it
PS> cd ..\VOLNIMANSEMESTER_5\PROGRAMMOBILE\jobsheet3\jobsheet3_kombinas1> git commit -m "Membuat Project Dart (Commit 1)"
[master (root-commit) 5c37731] Membuat Project Dart (Commit 1)
 9 files changed, 458 insertions(+)
create mode 100644 .gitignore
create mode 100644 CHANGELOG.md
create mode 100644 README.md
create mode 100644 analysis_options.yaml
create mode 100644 bin\jobsheet3_kombinas1.dart
create mode 100644 lib\jobsheet3_kombinas1.dart
create mode 100644 pubspec.lock
PS> cd ..\VOLNIMANSEMESTER_5\PROGRAMMOBILE\jobsheet3\jobsheet3_kombinas1> git remote add origin https://github.com/Pann09/J35-MOBILE.git
```

4. Branch pertama “feature-basic-input”. Branch ini menambahkan input angka untuk pengecekan bilangan prima

[branches](#)

- ## 5 Commit kedua (menambahkan input angka)

```
bin > jobsheet3_kombinasi.dart > ...
1 import 'package:jobsheet3_kombinasi/jobsheet3_kombinasi.dart' as jobsheet3_kombinasi;
2
3 void main() {
4     int angka = 17;
5     print('Angka yang dicek: $angka');
6 }
7
```

```
P E - V I N O M A N A S M E T E R 5 P R O G R A M M O B I L E \ j o b s h e e t 3 \ j o b s h e e t 3 _ k o m b i n a s i | g i t c o m m i t - m " M e n a m b a r k a n i n p u t a n g k a ( C o m m i t 2 ) "
[ f u n c t i o n ( f u n c t i o n ( b o o l ) { } ) ] M e n a m b a r k a n i n p u t a n g k a ( C o m m i t 2 )
| f u l l _ c h a n g e d , 1 i n s e r t i o n s ( + ) , 2 d e l e t i o n s ( - )
P E - V I N O M A N A S M E T E R 5 P R O G R A M M O B I L E \ j o b s h e e t 3 \ j o b s h e e t 3 _ k o m b i n a s i | g i t p u s h o r i g i n f e a t u r e - b a s i c - i n p u t
E n u m e r a t i o n o b j e c t s : 7 , d o n e .
C o u n t i n g o b j e c t s : 1 0 0 % ( 7 / 7 ) , d o n e .
D e l t a c o m p r e s s i o n u s i n g u s i n g 8 t h r e a d s
C o m p r e s s i o n o b j e c t s : 1 0 0 % ( 4 / 4 ) , d o n e .
W r i t i n g o b j e c t s : 1 0 0 % ( 4 / 4 ) , 4 2 5 b y t e s | 4 2 5 . 0 0 K i B / s , d o n e .
T o t a l 4 ( d e l t a 1 ) , r e u s e d 0 ( d e l t a 0 ) , p a c k - r e u s e d 0 ( f r o m 0 )
r e m o t e : R e s o l v i n g d e l t a s : 1 0 0 % ( 1 / 1 ) , c o m p l e t e d w i t h 1 l o c a l o b j e c t .
r e m o t e :
r e m o t e : C r e a t e a p u l l r e q u e s t f o r ' f e a t u r e - b a s i c - i n p u t ' o n G i t H u b b y v i s i t i n g :
r e m o t e : https://github.com/Pan999/J53-MOBILE/pull/new/feature-basic-input
r e m o t e :
T o https://github.com/Pan999/J53-MOBILE.git
* [ n e w b r a n c h ] f e a t u r e - b a s i c - i n p u t _ > f e a t u r e - b a s i c - i n p u t
```

6. Branch kedua “feature-prime-logic”. Branch ini menambahkan logika percabangan dan perulangan untuk bilangan prima

```
git feature-prime-logic 7 minutes ago
= * b592237 • Menambahkan input angka (Commit 2)
```

7. Commit ketiga (menambahkan logika percabangan dan perulangan)

```
bin > jobsheet3_kombinasi.dart > ⚡ main
1 import 'package:jobsheet3_kombinasi/jobsheet3_kombinasi.dart' as jobsheet3_kombinasi;
2
3 Run | Debug
4 void main() {
5     int angka = 17;
6     bool isPrima = true;
7
8     if (angka <= 1) {
9         isPrima = false;
10    } else {
11        for (int i = 2; i < angka; i++) {
12            if (angka % i == 0) {
13                isPrima = false;
14                break;
15            }
16        }
17    }
18 }
```

```
PS E:\VOLINEMASSEMESTER\5PERPROGRAMMAN MOBILE\jobsheet3\jobsheet3_kombinasi> git add .
warning: in the working copy of 'bin/jobsheet3_kombinasi.dart', LF will be replaced by CRLF the next time Git touches it
PS E:\VOLINEMASSEMESTER\5PERPROGRAMMAN MOBILE\jobsheet3\jobsheet3_kombinasi> git commit -m "Menambahkan logika percabangan dan perulangan (Commit 3)"
[feature-prime-logic 09306f8] Menambahkan logika percabangan dan perulangan (Commit 3)
1 file changed, 12 insertions(+), 1 deletion(-)
PS E:\VOLINEMASSEMESTER\5PERPROGRAMMAN MOBILE\jobsheet3\jobsheet3_kombinasi> git push origin feature-prime-logic
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 502 bytes | 100.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-prime-logic' on GitHub by visiting:
remote:   https://github.com/Pann99/J53-MOBILE/pull/new/feature-prime-logic
remote:
To https://github.com/Pann99/J53-MOBILE.git
 * [new branch]      feature-prime-logic -> feature-prime-logic
```

8. Branch ketiga “feature-output”. Branch ini menambahkan output hasil pengecekan bilangan prima

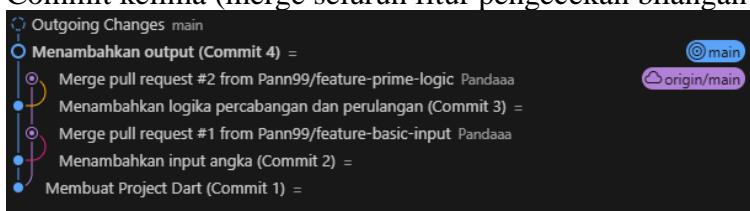
```
git feature-output 5 minutes ago
= * a9365fb • Menambahkan logika percabangan dan perulangan (Commit 3)
```

9. Commit keempat (menambahkan output)

```
bin > jobsheet3_kombinasi.dart > ⚡ main
1 import 'package:jobsheet3_kombinasi/jobsheet3_kombinasi.dart' as jobsheet3_kombinasi;
2
3 Run | Debug
4 void main() {
5     int angka = 17;
6     bool isPrima = true;
7
8     if (angka <= 1) {
9         isPrima = false;
10    } else {
11        for (int i = 2; i < angka; i++) {
12            if (angka % i == 0) {
13                isPrima = false;
14                break;
15            }
16        }
17
18        if (isPrima) {
19            print('Angka adalah bilangan prima');
20        } else {
21            print('Angka bukan bilangan prima');
22        }
23    }
24 }
```

```
PS E:\VOLINEMASSEMESTER\5PERPROGRAMMAN MOBILE\jobsheet3\jobsheet3_kombinasi> git add .
warning: in the working copy of 'bin/jobsheet3_kombinasi.dart', LF will be replaced by CRLF the next time Git touches it
PS E:\VOLINEMASSEMESTER\5PERPROGRAMMAN MOBILE\jobsheet3\jobsheet3_kombinasi> git commit -m "Menambahkan output (Commit 4)"
[feature-output fc179c8] Menambahkan output (Commit 4)
1 file changed, 7 insertions(+), 1 deletion(-)
PS E:\VOLINEMASSEMESTER\5PERPROGRAMMAN MOBILE\jobsheet3\jobsheet3_kombinasi> git push origin feature-output
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 414 bytes | 100.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'feature-output' on GitHub by visiting:
remote:   https://github.com/Pann99/J53-MOBILE/pull/new/feature-output
remote:
To https://github.com/Pann99/J53-MOBILE.git
 * [new branch]      feature-output -> feature-output
```

10. Commit kelima (merge seluruh fitur pengecekan bilangan prima)



Link Github : <https://github.com/Pann99/J53-MOBILE>