

**LAPORAN PRAKTIKUM
TEKNIK PEMROGRAMAN**

GENERIC PROGRAMMING

MINGGU KE-8



POLBAN

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PROGRAM STUDI SARJANA TERAPAN

TEKNIK INFORMATIKA

POLITEKNIK NEGERI BANDUNG

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<https://github.com/mailvlous/teknikPemrograman/tree/main/Week8>

1. Studi Kasus, Post Sosial Media

Pada materi Generic Programming kali ini saya mengambil studi kasus mengenai Post dalam Media Sosial. Media Sosial seperti Facebook/Twitter memiliki beberapa jenis post yang dapat kita buat sebagai usernya.

1. Text Post

```
Week8 > J TextContent.java > Java > TextContent > TextContent(String text)
1  package Week8;
2
3  public class TextContent implements Content{
4      private String text;
5
6      public TextContent(String text) {
7          this.text = text;
8      }
9
10     @Override
11     public void display() {
12         System.out.println("Post: " + text);
13     }
14 }
```

Dalam TextPost biasanya menggunakan String sebagai tipe data

2. Image Post

```
Week8 > J ImageContent.java > Java > {} Week8
1  package Week8;
2
3  public class ImageContent implements Content {
4      private String imageUrl;
5
6      public ImageContent(String url) {
7          this.imageUrl = url;
8      }
9
10     public void display() {
11         System.out.println(imageUrl);
12     }
13 }
```

Dalam Image Post saya mengambil url yang dimana tipe datanya String

3. Polling Post(Generic Class)

```
Week8 > J PollContent.java > ...
1  package Week8;
2
3  import java.util.List;
4
5  public class PollContent<T> implements Content {
6      private List<T> options;
7
8      public PollContent(List<T> options) {
9          this.options = options;
10     }
11
12     public void display() {
13         System.out.println("Polling: ");
14         for(int i = 0; i < options.size(); i++){
15             System.out.println(options.get(i));
16         }
17     }
18
19     public void showPollOthers() {
20         display();
21     }
22
23     public void showPoll(PollContent<?> poll) {
24         poll.display();
25     }
26 }
```

Dalam Polling Post dapat diisi tipe data generic/bisa bermacam macam, contohnya “true, 1, “Satu”, false”.

Lalu mempunyai Class utama Post yaitu Generic Class yang hanya menerima Class yang meng-implements interface Content

```
Week8 > J Post.java > Java > Post<T extends Content> > showPoll(PollContent<?> poll)
1  package Week8;
2
3  public class Post<T extends Content> {
4      private T content;
5
6      public Post(T content){
7          this.content = content;
8      }
9
10     public void ShowPost() {
11         content.display();
12     }
13
14     public void showPoll(PollContent<?> poll) {
15         poll.display();
16     }
17
18 }
```

Yaitu class class diatas: Text Post, Image Post, Poll Post.

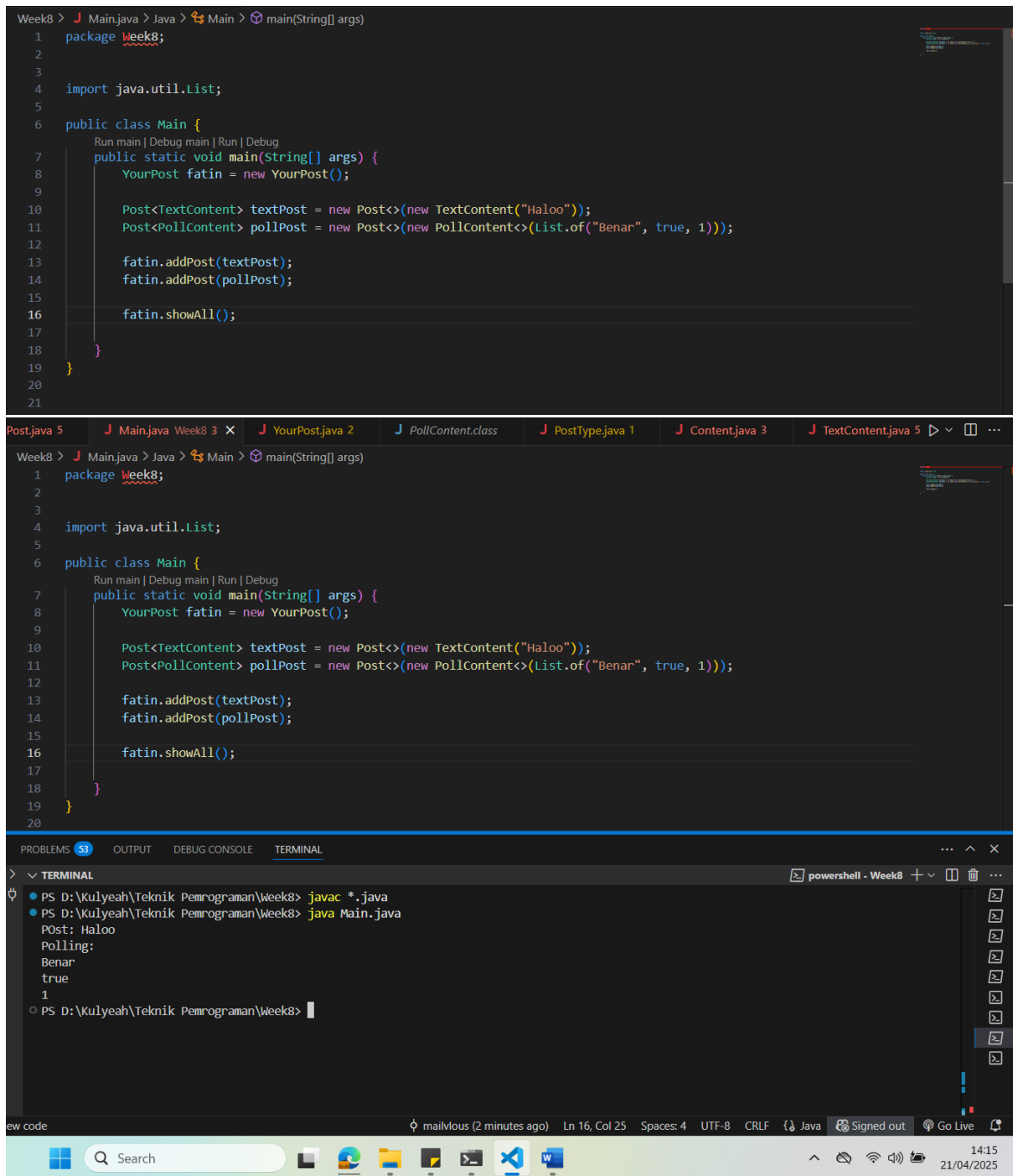
Wildcard

Dalam kasus ini saya menggunakan konsep wildcard pada class YourPost

```
Week8 > J YourPost.java > ...
1  package Week8;
2
3  import java.util.ArrayList;
4  import java.util.List;
5
6  public class YourPost {
7      private List<Post<?>> posts = new ArrayList<>();
8
9
10     public void addPost(Post<?> post) {
11         posts.add(post);
12     }
13
14     public void showAll() {
15         for (Post<?> post : posts) {
16             post.ShowPost();
17         }
18     }
19 }
20
```

Yang dimana fungsi addPost dapat menerima Post apapun(Image Post, Text Post, Poll Post)

Main Function



The screenshot displays an IDE with a Java project named 'Week8'. The main file, 'Main.java', contains the following code:

```
1 package week8;
2
3
4 import java.util.List;
5
6 public class Main {
7     Run main | Debug main | Run | Debug
8     public static void main(String[] args) {
9         YourPost fatin = new YourPost();
10
11         Post<TextContent> textPost = new Post<>(new TextContent("Haloo"));
12         Post<PollContent> pollPost = new Post<>(new PollContent<>(List.of("Benar", true, 1)));
13
14         fatin.addPost(textPost);
15         fatin.addPost(pollPost);
16
17         fatin.showAll();
18     }
19 }
20
21
```

The IDE's terminal window shows the execution of the code:

```
PS D:\Kulyeah\Teknik Pemrograman\Week8> javac *.java
PS D:\Kulyeah\Teknik Pemrograman\Week8> java Main.java
Post: Haloo
Polling:
Benar
true
1
PS D:\Kulyeah\Teknik Pemrograman\Week8>
```

The terminal output matches the logic in the code: it prints 'Post: Haloo' for the text post and 'Polling: Benar true 1' for the poll post.