## LAPORAN PRAKTIKUM POSTTEST 4 PEMOGRAMAN BERBASIS OBJEK



## Disusun oleh:

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## Ss Program Polymorphism

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J 2309106074_Muhammad Nashrul Fakhri_Posttest4.java X
             import java.util.ArrayList;
import java.util.Scanner;
            class Flight {
                 private String departureTime;
                   private String arrivalTime;
private String airlineName;
                   private String airlineType;
private String departureLocation;
                   private String arrivalLocation;
                   public Flight(String departureTime, String arrivalTime, String airlineName, String airlineType, String departureLocation, String arrivalLocation)
    this.departureTime = departureTime;
    this.airlineName = airlineName;
    this.airlineType = airlineType;
    this.departureLocation = departureLocation;
    this.arrivalLocation = arrivalLocation;
                   public String getDepartureTime() {
    return departureTime;
                   public void setDepartureTime(String departureTime) {
    this.departureTime = departureTime;
                   public String getAirlineName() {
    return airlineName;
                   public void setAirlineName(String airlineName) {
                             this.airlineName = airlineName;
                   class CommercialFlight extends Flight {
   private int passengerCapacity;
              public CommercialFlight(String departureTime, String arrivalTime, String airlineHame, String airlineHame, String airlineHame, String departureLocation, String arrivalLocation, int passengerCapacity) {
    super(departureTime, arrivalTime, airlineHame, airlineHype, departureLocation, arrivalLocation);
    this.passengerCapacity = passengerCapacity;
              // method ordering
@Qoverride
public String toString() {
    return super.toString() + "\nTipe: Komersial\nKapasitas Penumpang: " + passengerCapacity;
        class PrivateFlight extends Flight {
   private String owner;
               // method override totoring page = 19
@Override
public String toString() {
    return super.toString() + "\nTipe: Pribadi\nPemilik: " + owner;
        public class FlightManagement {
    static ArrayList<Flight> flights - new ArrayList<>();
    static Scanner scanner - new Scanner(System.in);
              Run main | Debug main | Run | Debug
public static void main(string[] args) {
    while (true) {
        System.out.println(%2"\nManajemen Penerbangan Pesawat");
        System.out.println(%2"1. Tambah Jadwal Pesawat");
        System.out.println(%2"2. Lihat Semua Jadwal");
        System.out.println(%2"3. Lihat Jadwal Tertentu (Polymorphism Overload)");
        System.out.println(%2"1. Hapus Jadwal Pesawat");
```

```
System.out.println(x:"4. Hapus Jadwal Pesawat");
        System.out.println(x:"5. Keluar");
        System.out.print(s:"Pilih menu: ");
        int choice = scanner.nextInt();
        scanner.nextLine();
        switch (choice) {
            case 1:
                addFlight();
               break;
                displayFlightInfo();
                break;
            case 3:
                System.out.print(s: "Masukkan nomor jadwal yang ingin dilihat: ");
                int idx = scanner.nextInt();
                scanner.nextLine();
                displayFlightInfo(idx - 1);
                break;
            case 4:
               deleteFlight();
                break;
                System.out.println(x:"Anda telah keluar dari program.");
            default:
                System.out.println(x:"Pilihan tidak valid. Coba lagi.");
static void addFlight() {
    System.out.println(x:"Pilih jenis penerbangan:");
   System.out.println(x:"1. Komersial");
System.out.println(x:"2. Pribadi");
    System.out.print(s:"Pilihan: ");
    int typeChoice = scanner.nextInt();
    scanner.nextLine();
    System.out.print(s:"Masukkan Jam Berangkat: ");
    String departureTime = scanner.nextLine();
    System.out.print(s:"Masukkan Jam Tiba: ");
    String arrivalTime = scanner.nextLine();
```

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String arrivalTime = scanner.nextLine();
System.out.print(s:"Masukkan Nama Pesawat: ");
String airlineName = scanner.nextLine();
System.out.print(s:"Masukkan Tipe Pesawat: ");
String airlineType = scanner.nextLine();
     System.out.print(s:"Masukkan Lokasi Keberangkatan: ");
String departureLocation = scanner.nextLine();
     System.out.print(s:"Masukkan Lokasi Kedatangan: ");
    String arrivalLocation = scanner.nextLine();
    if (typeChoice == 1) {
     If typeLhoice == 1.3

System.out.print(s:"Masukkan Kapasitas Penumpang: ");
int passengerCapacity = scanner.nextInt();
flights.add(new CommercialFlight(departureTime, arrivalTime, airlineName, airlineType, departureLocation, arrivalLocation, passengerCapacity));
} else if (typeChoice == 2) {
System.out.print(s:"Masukkan Nama Pemilik: ");
          String owner = scanner.nextLine();
flights.add(new PrivateFlight(departureTime, arrivalTime, airlineName, airlineType, departureLocation, arrivalLocation, owner));
// Method Overloading tanpa index pada display flight info
static void displayFlightInfo() {
     if (flights.isEmpty()) {
    System.out.println(x:"Tidak ada jadwal penerbangan.");
     for (int i = 0; i < flights.size(); i++) {
    System.out.println((i + 1) + ".\n" + flights.get(i));
    System.out.println(x:"-----");</pre>
// Method Overloading menggunakan index pada display flight info
static void displayFlightInfo(int index) {
   if (index >= 0 && index < flights.size()) {
      System.out.println("Detail Jadwal:\n" + flights.get(index));
}</pre>
    } else {
    System.out.println(x:"Index tidak valid."):
                                 System.out.println(x:"Index tidak valid.");
               static void deleteFlight() {
                        if (flights.isEmpty()) {
                                 System.out.println(x:"Tidak ada jadwal yang bisa dihapus.");
                                 return;
                        displayFlightInfo();
                        System.out.print(s:"Pilih nomor jadwal yang ingin dihapus: ");
                        int index = scanner.nextInt() - 1;
                        scanner.nextLine();
                        if (index >= 0 && index < flights.size()) {</pre>
                                 flights.remove(index);
                                 System.out.println(x:"Jadwal berhasil dihapus.");
                        } else {
                                 System.out.println(x:"Nomor tidak valid.");
```