## LAPORAN PRAKTIKUM POSTTEST 5

## PEMOGRAMAN BERBASIS OBJEK



## Disusun oleh:

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## **Ss Program Abstrack Class**

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kuliah > Semester 4 > Praktikum > PBO > J FlightManagement.java > Language Support for Java(TM) by Red Hat > 🕏 Flight > 🖸 setDepartureTime(String) import java.util.ArrayList; import java.util.Scanner;
 // Abstract class
abstract class Flight {
   private String departureTime;
   private String arrivalTime;
   private String airLineName;
   protected final String airLineType; // final attribute
   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;
       public String getDepartureLocation() {
    return departureLocation;
}
      public String getArrivalLocation() {
    return arrivalLocation;
      public abstract String getFlightType(); // abstract method
      public CommercialFlight(String departureTime, String arrivalTime, String airlineHame, String airlineType, String departureLocation, String arrivalLocation, int passengerCapacity) {
   super_departureTime, arrivalTime, airlineHame, airlineType, departureLocation, arrivalLocation);
   this.passengerCapacity = passengerCapacity;
}
class CommercialFlight extends Flight {
    private int passengerCapacity;
      @Override
public String toString() {
    return super.toString() + "\nTipe: " + getFlightType() + "\nKapasitas Penumpang: " + passengerCapacity;
    return super.toString() + "\nTipe: " + getFlightType() + "\nKapasitas Penumpang: " + passengerCapacity;
       public PrivateFlight(String departureTime, String arrivalTime, String airlineHame, String airlineHame, String departureLocation, String arrivalLocation, String owner) {
    super(departureTime, arrivalTime, airlineHame, airlineType, departureLocation, arrivalLocation);
    this.owner = owner;
      @Override
public String getFlightType() {
    return "Pribadi";
```

```
public String toString() {
                   return super.toString() + "\nTipe: " + getFlightType() + "\nPemilik: " + owner;
public final 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) {
                         ile (true) {
    System.out.println(x: "\nManajemen Penerbangan Pesawat");
    System.out.println(x: "1. Tambah Jadwal Pesawat");
    System.out.println(x: "2. Lihat Semua Jadwal");
    System.out.println(x: "3. Lihat Jadwal Tertentu (Polymorphism Overload)");
    System.out.println(x: "4. Hapus Jadwal Pesawat");
    System.out.println(x: "5. Keluar");
    System.out.printl(s: "Pilih menu: ");

                           int choice = scanner.nextInt();
scanner.nextLine();
                           switch (choice) {
                                            addFlight();
                                            break;
                                            displayFlightInfo();
                                            break;
                                             scanner.nextLine();
                                             displayFlightInfo(idx - 1);
                                    case 4:
                                            deleteFlight();
                                    System.out.println(x:"Anda telah keluar dari program."):
                                    System.out.println(x:"Pilihan tidak valid. Coba lagi.");
    static void addFlight() {
    System.out.println(xz"Pilih jenis penerbangan:");
    System.out.println(xz"1. Komersial");
    System.out.println(xz"2. Pribadi");
    System.out.print(sz"Pilihan: ");
    int typeChoice = scanner.nextInt();
    scanner.nextLine();
             System.out.print(s: masukan Jam berangkat
String departureline = scanner.nextline();
System.out.print(s:"Masukkan Jam Tiba: ");
String arrivalTime = scanner.nextLine();
System.out.print(s:"Masukkan Nama Pesawat:
String airlineName = scanner.nextline();
             Scring airlinewame - scanner.nextLine();
System.out.print(§:"Masukkan Tipe Pesawat: ");
String airlineType - scanner.nextLine();
System.out.print(§:"Masukkan Lokasi Keberangkatan: ");
             String departureLocation = scanner.nextLine();
System.out.print(s:"Masukkan Lokasi Kedatangan:
String arrivalLocation = scanner.nextLine();
             if (typeChoice == 1) {
             If (typekhoice ==):

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));
                     System.out.println(x:"Pilihan tidak valid!");
```

```
static void displayFlightInfo() {
   if (flights.isEmpty()) {
       System.out.println(x:"Tidak ada jadwal penerbangan.");
    for (int i = 0; i < flights.size(); i++) {</pre>
       System.out.println((i + 1) + ".\n" + flights.get(i));
       System.out.println(x:"-----");
static void displayFlightInfo(int index) {
   if (index >= 0 && index < flights.size()) {</pre>
        System.out.println("Detail Jadwal:\n" + flights.get(index));
        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.");
```