## Design Pattern Mediator

```
public interface ICommand {
    void grantLandingPermission();
public class Flight implements ICommand {
    private IATCMediator atcMediator;
    public Flight(IATCMediator atcMediator) {
        this.atcMediator = atcMediator;
    public void grantLandingPermission() {
        if (atcMediator.isLandingOk()) {
            System.out.println("landing done");
            atcMediator.setLandingStatus(true);
        } else
            System.out.println("waiting to land");
    }
    public void getReady() {
        System.out.println("ready");
}
public class Runway implements ICommand {
    private IATCMediator atcMediator;
    public Runway(IATCMediator atcMediator) {
        this.atcMediator = atcMediator;
        atcMediator.setLandingStatus(true);
    public void grantLandingPermission() {
        System.out.println("landing permission granted");
        atcMediator.setLandingStatus(true);
    }
}
public interface IATCMediator {
    void registerRunway(Runway runway);
    void registerFlight(Flight flight);
    boolean isLandingOk();
    void setLandingStatus(boolean status);
```

```
public class ATCMediator implements IATCMediator {
    private Flight flight;
    private Runway runway;
    public boolean status;
    public void registerRunway(Runway runway) {
       this.runway = runway;
    public void registerFlight(Flight flight) {
       this.flight = flight;
    public boolean isLandingOk() {
       return status;
    public void setLandingStatus(boolean status) {
       this.status = status;
    public String toString() {
       return flight + " - " + runway + " - " + status;
    }
}
public class Application {
    public static void main(String... args) {
        IATCMediator atcMediator = new ATCMediator();
        Runway mainRunway = new Runway(atcMediator);
        atcMediator.registerRunway(mainRunway);
        Flight sparrow101 = new Flight(atcMediator);
        atcMediator.registerFlight(sparrow101);
        sparrow101.getReady();
        mainRunway.grantLandingPermission();
        sparrow101.grantLandingPermission();
    }
}
```