



Group -2

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State.java

```
public interface State {  
    public void doAction(Context context );  
}
```

Context.java

```
public class Context {  
    private State state;  
    public Context(){  
        state=null;  
    }  
    public void setState(State state){  
        this.state=state;  
    }  
    public State getState(){  
        return state;  
    }  
}
```

WaitingState.java

```
public class WaitingState implements State {  
    public void doAction(Context context){  
        System.out.println("User is in Waiting State");  
        System.out.println("Username and Password are inputted");  
        context.setState(this);  
    }  
    public String toString(){  
        return "Waiting State";  
    }  
}
```

```
}  
}
```

VerificationState.java

```
public class VerificationState implements State {  
    public void doAction(Context context){  
        System.out.println("User is in Verification State");  
        System.out.println("Username and Password are being verified");  
        context.setState(this);  
    }  
    public String toString(){  
        return "Verification State";  
    }  
}
```

LoginState.java

```
public class LoginState implements State{  
    public void doAction(Context context){  
        System.out.println("Login Successful");  
        System.out.println("User can Search Flights Book them and Make  
Payment");  
        context.setState(this);  
    }  
    public String toString(){  
        return "Login State";  
    }  
}
```

```
}  
}
```

StatePatternDemo.java

```
public class StatePatternDemo {  
    public static void main(String args[]){  
        Context context=new Context();  
        WaitingState w=new WaitingState();  
        w.doAction(context);  
        System.out.println(context.getState().toString());  
  
        VerificationState v=new VerificationState();  
        v.doAction(context);  
        System.out.println(context.getState().toString());  
  
        LoginState l=new LoginState();  
        l.doAction(context);  
        System.out.println(context.getState().toString());  
    }  
}
```

OUTPUT

User is in Waiting State

Username and Password are inputed

Waiting State

User is in Verification State

Username and Password are being verified

Verification State

Login Successful

User can Search Flights Book them and Make Payment

Login State