TestNG Practice Task — Execution Order & Dependencies

Goal

Practice TestNG features including priority, dependsOnMethods, dependsOnGroups, groups usage, execution order, and failure → skip behavior.

Project Theme

Clinic Visit Workflow Tests

Create Test Class

Package: com.clinic.tests
Class: ClinicWorkflowTests.java

Create Test Methods

Create the following methods:
doctorLogin, openDashboard, searchPatient, openPatientProfile, addVisitNotes, createPrescription, sendPrescription, generateVisitSummary, doctorLogout

Method Requirement

Each method must use @Test annotation and print its name to console.

Priority Assignment

Assign priorities in this order:
1 doctorLogin
2 openDashboard
3 searchPatient
4 openPatientProfile
5 addVisitNotes
6 createPrescription
6 sendPrescription (same priority tie case)
7 generateVisitSummary
8 doctorLogout
Requirement: At least two methods must share the same priority.

dependsOnMethods Chain

Add dependencies:

openDashboard → doctorLogin
searchPatient → openDashboard
openPatientProfile → searchPatient
addVisitNotes → openPatientProfile
createPrescription → openPatientProfile
sendPrescription → createPrescription
generateVisitSummary → addVisitNotes
doctorLogout → doctorLogin
Requirement: Use dependsOnMethods on at least 6 methods.

Failure Exercise

Inside searchPatient(), add Assert.fail("Patient search service down").
Run tests and record PASSED, FAILED, SKIPPED tests and explain why skips occur.
Then remove failure and rerun.

Groups Assignment

auth: doctorLogin, doctorLogout
patient: searchPatient, openPatientProfile, addVisitNotes
pharmacy: createPrescription, sendPrescription
reporting: generateVisitSummary
regression: ALL methods

dependsOnGroups Task

Create method pharmacySystemCheck() in group 'integration' that dependsOnGroups='pharmacy'.
Fail createPrescription() and observe whether pharmacySystemCheck runs.

Student Questions

1. Difference between priority and dependsOnMethods
2. Which is stronger: priority or dependency
3. What happens when dependency fails
4. Why dependencies are safer than priority for workflows
5. What causes SKIPPED status in TestNG

Deliverables

Submit Java file, console screenshots (normal run, failure run, skip behavior), and written answers.