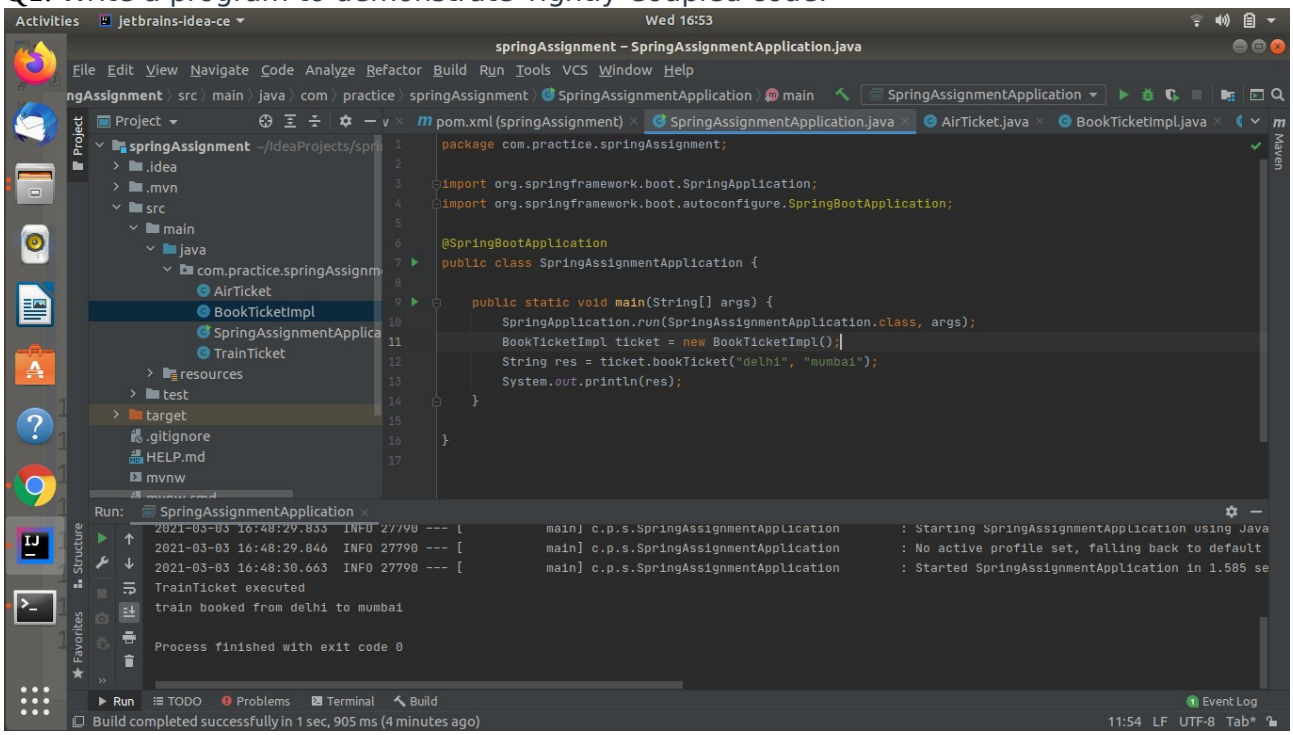
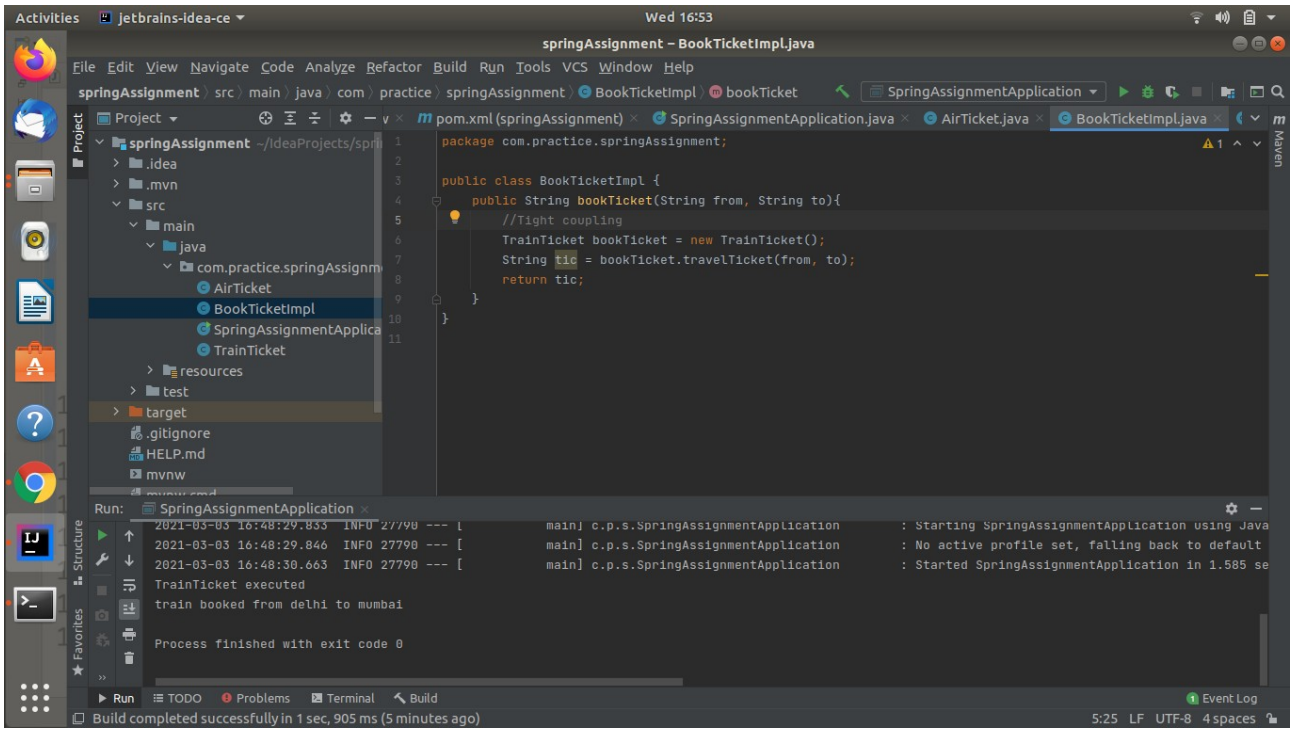
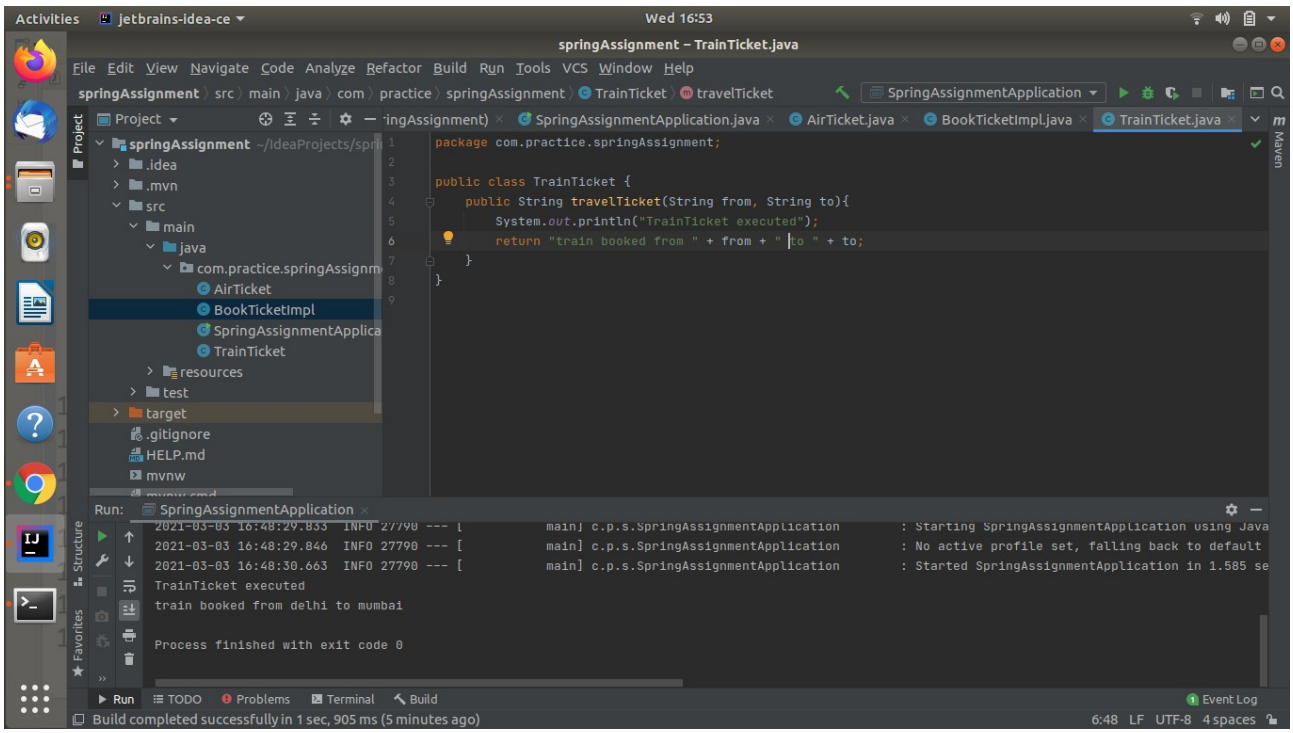
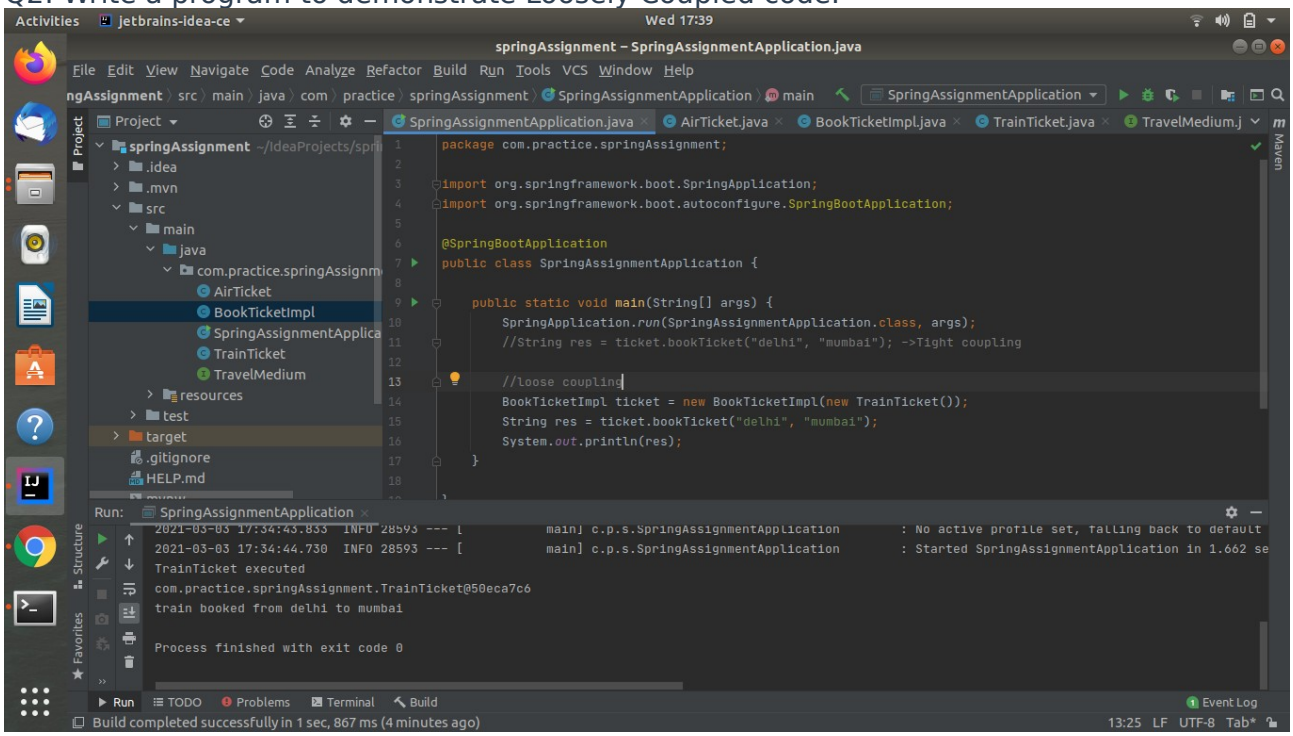
Q1: Write a program to demonstrate Tightly Coupled code.

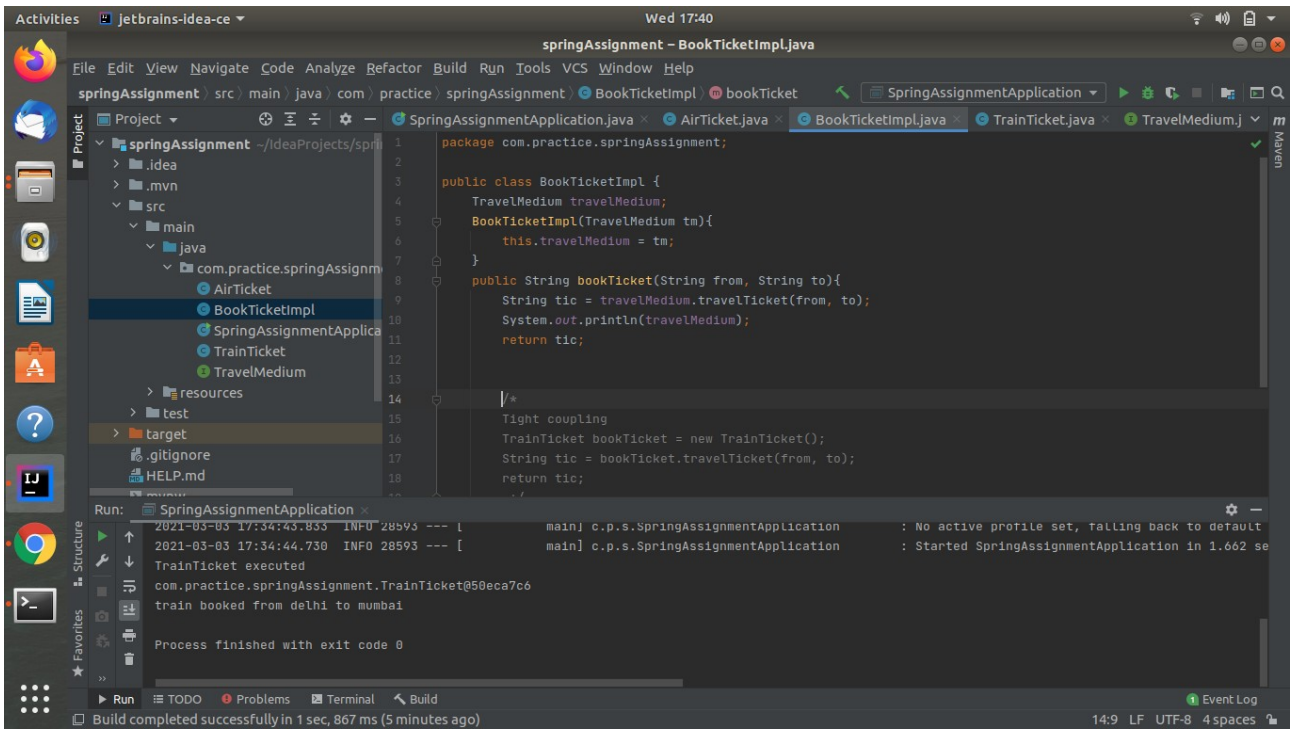


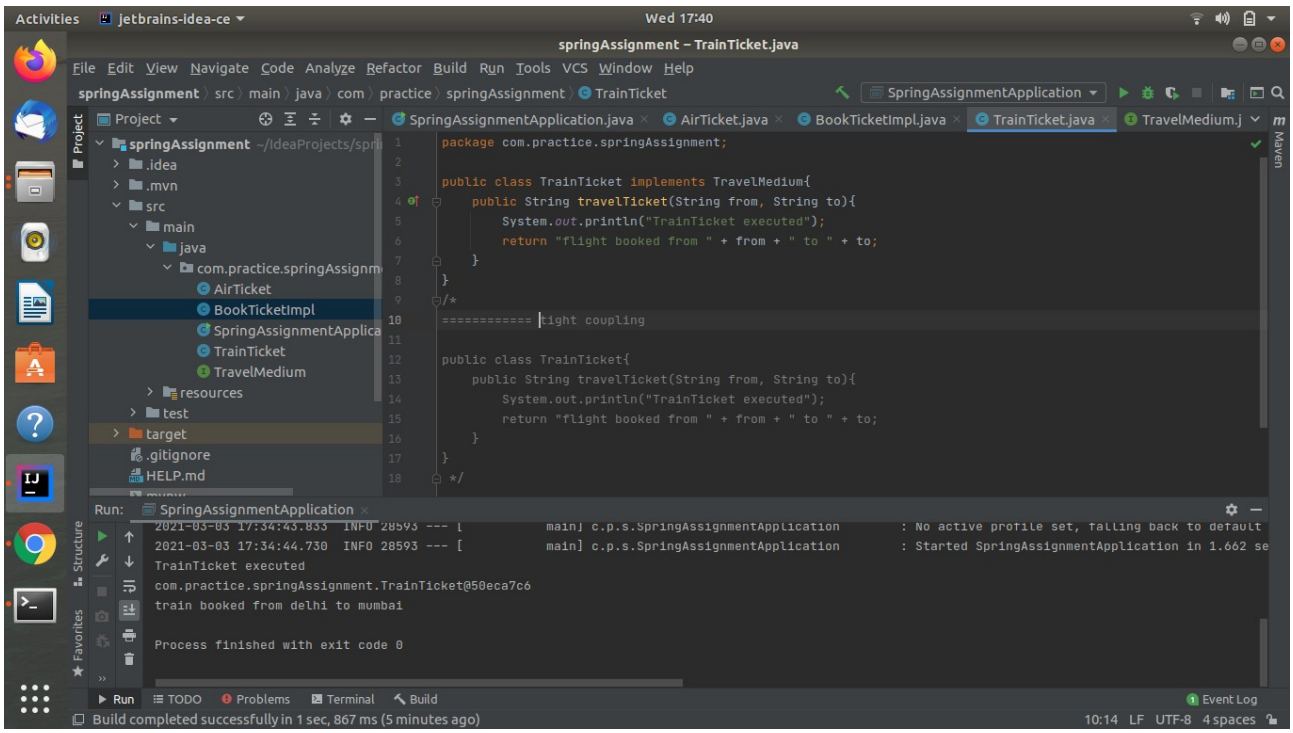


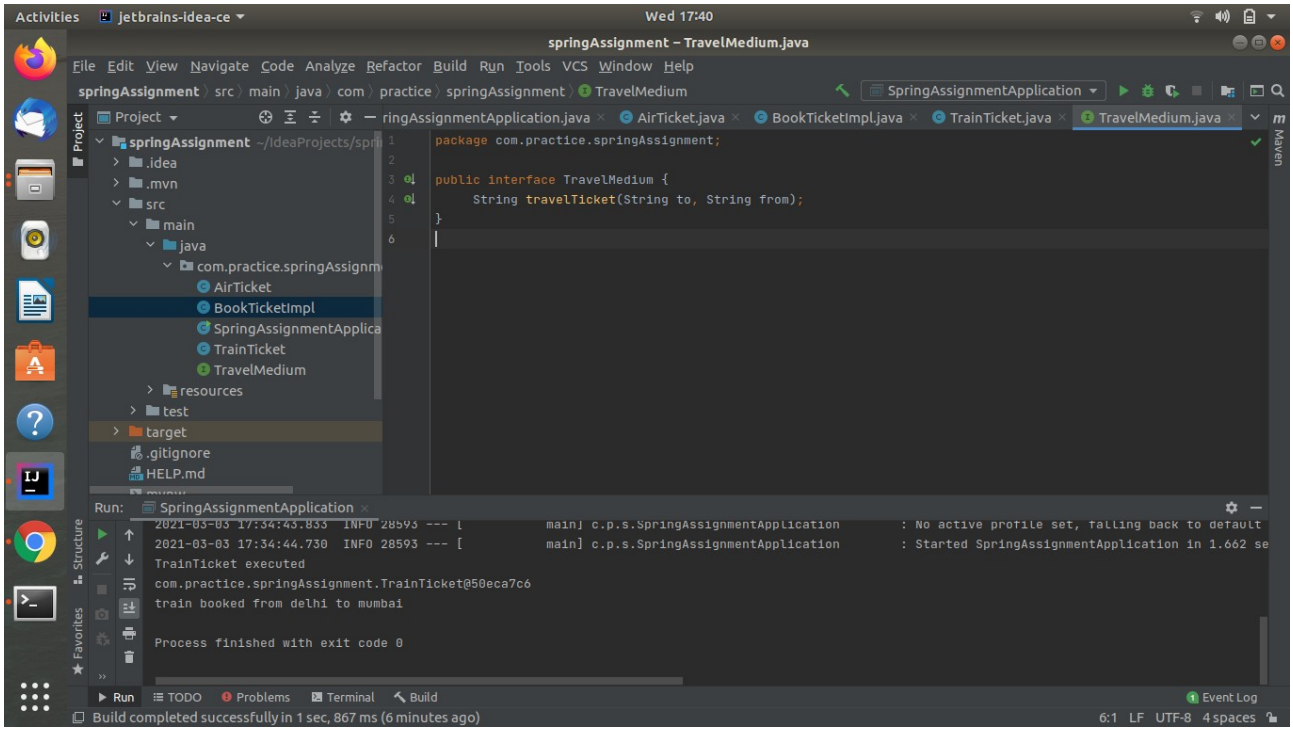

Activities
jetbrains-idea-ce
Wed 16:53
springAssignment – TrainTicket.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
springAssignment src main java com practice springAssignment TrainTicket travelTicket
SpringAssignmentApplication
Project
springAssignment ~/IdeaProjects/spri
.idea
.mvn
src
main
java
com.practice.springAssignm
AirTicket
BookTicketImpl
SpringAssignmentApplica
TrainTicket
resources
test
target
.gitignore
HELP.md
mvnw
SpringAssignmentApplication.java
AirTicket.java
BookTicketImpl.java
TrainTicket.java
package com.practice.springAssignment;
public class TrainTicket {
public String travelTicket(String from, String to){
System.out.println("TrainTicket executed");
return "train booked from " + from + " to " + to;
}
}
Run: SpringAssignmentApplication
2021-03-03 16:48:30.663 INFO 27790 --- [main] c.p.s.SpringAssignmentApplication : Started SpringAssignmentApplication in 1.585 se
TrainTicket executed
train booked from delhi to mumbai
Process finished with exit code 0
Run
TODO
Problems
Terminal
Build
Event Log
Build completed successfully in 1 sec, 905 ms (5 minutes ago)
6:48 LF UTF-8 4 spaces

Q2: Write a program to demonstrate Loosely Coupled code.

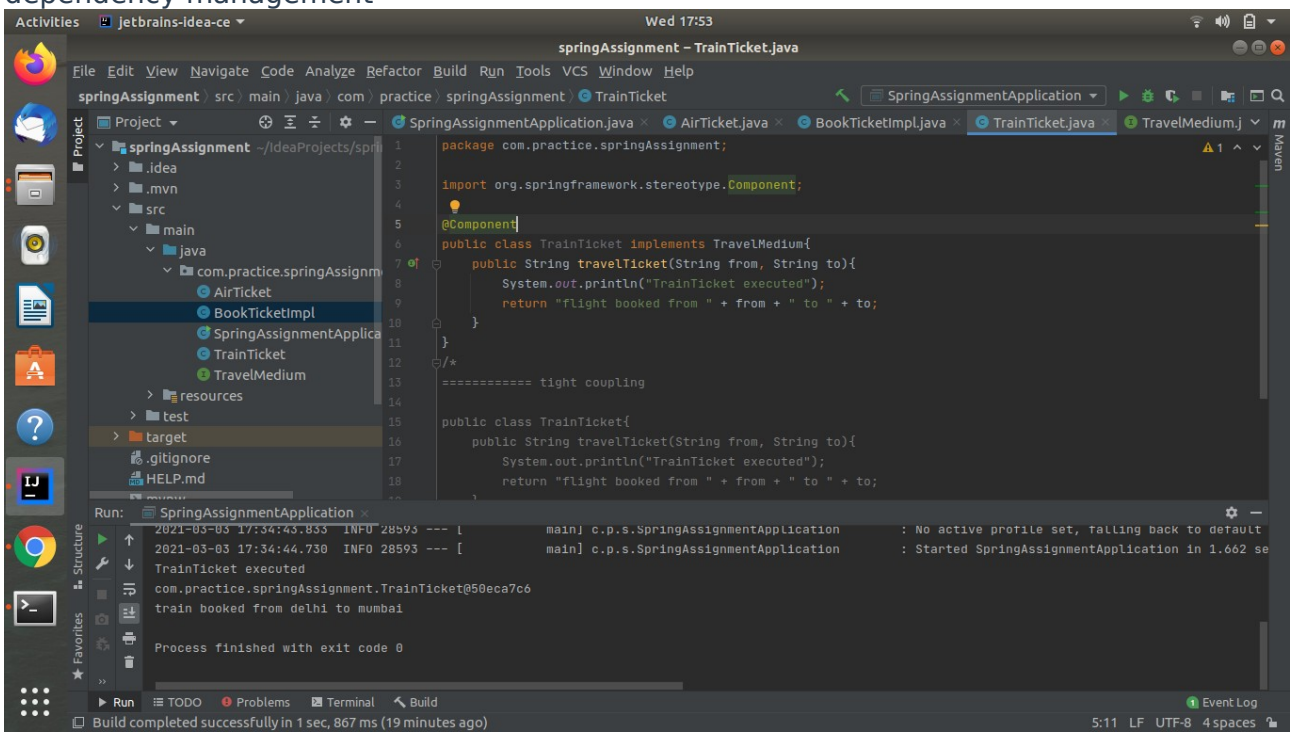


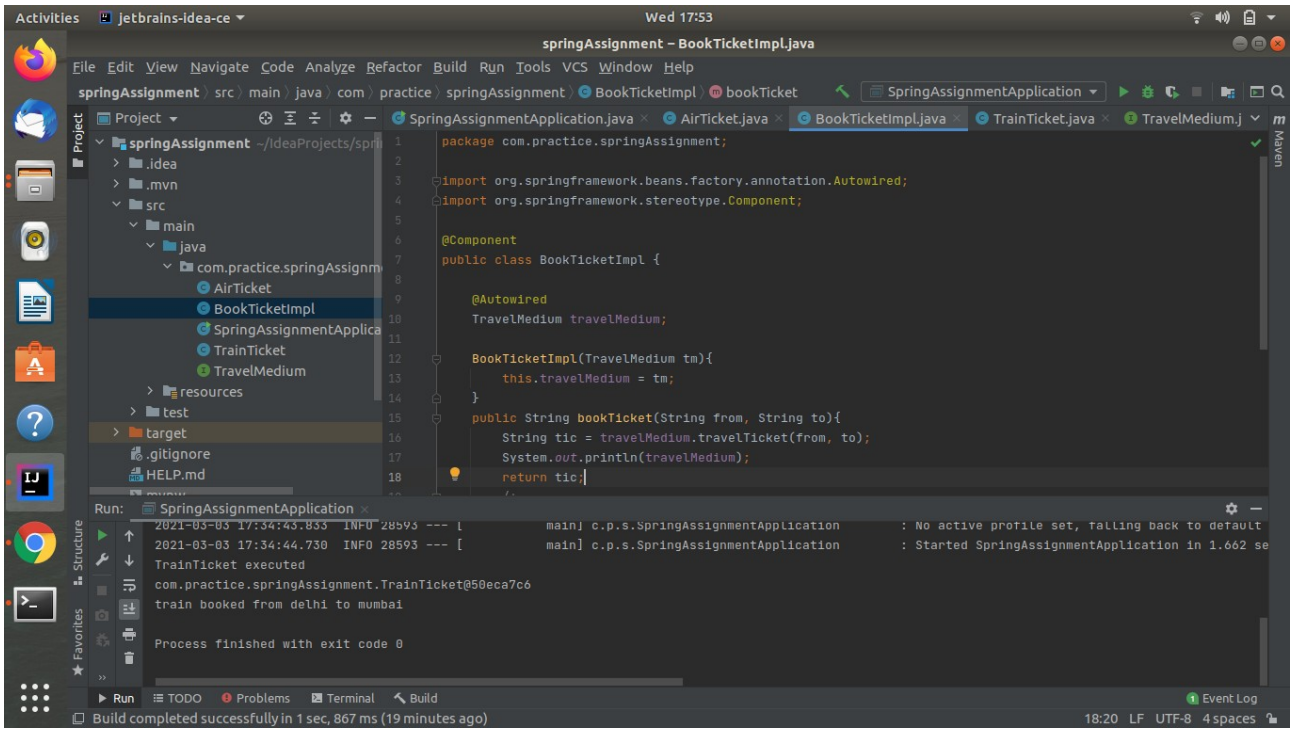


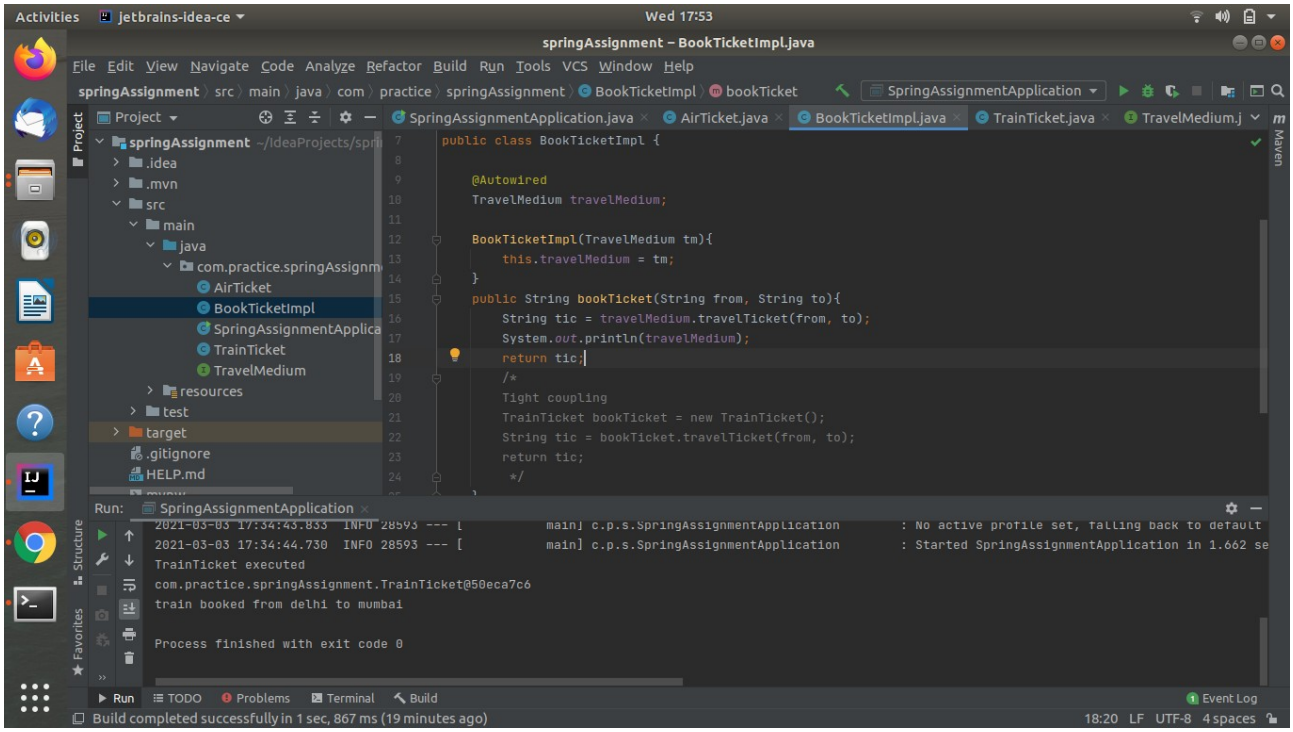

Activities
jetbrains-idea-ce
Wed 17:40
springAssignment – TrainTicket.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
springAssignment › src › main › java › com › practice › springAssignment › TrainTicket
SpringAssignmentApplication
Project
SpringAssignmentApplication.java
AirTicket.java
BookTicketImpl.java
TrainTicket.java
TravelMedium.j
springAssignment ~/IdeaProjects/spri
.idea
.mvn
src
main
java
com.practice.springAssignm
AirTicket
BookTicketImpl
SpringAssignmentApplica
TrainTicket
TravelMedium
resources
test
target
.gitignore
HELP.md
package com.practice.springAssignment;
public class TrainTicket implements TravelMedium{
public String travelTicket(String from, String to){
System.out.println("TrainTicket executed");
return "flight booked from " + from + " to " + to;
}
}
/*
============ flight coupling
public class TrainTicket{
public String travelTicket(String from, String to){
System.out.println("TrainTicket executed");
return "flight booked from " + from + " to " + to;
}
}
*/
Run: SpringAssignmentApplication
2021-03-03 17:34:44.730 INFO 28593 --- [main] c.p.s.SpringAssignmentApplication : Started SpringAssignmentApplication in 1.662 se
TrainTicket executed
com.practice.springAssignment.TrainTicket@50eca7c6
train booked from delhi to mumbai
Process finished with exit code 0
Run
TODO
Problems
Terminal
Build
Event Log
Build completed successfully in 1 sec, 867 ms (5 minutes ago)
10:14 LF UTF-8 4 spaces


Activities
jetbrains-idea-ce
Wed 17:40
springAssignment – TravelMedium.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
springAssignment › src › main › java › com › practice › springAssignment › TravelMedium
SpringAssignmentApplication
Project
AirTicket.java
BookTicketImpl.java
TrainTicket.java
TravelMedium.java
springAssignment ~/IdeaProjects/spri
.idea
.mvn
src
main
java
com.practice.springAssignm
AirTicket
BookTicketImpl
SpringAssignmentApplica
TrainTicket
TravelMedium
resources
test
target
.gitignore
HELP.md
package com.practice.springAssignment;
public interface TravelMedium {
String travelTicket(String to, String from);
}
Run: SpringAssignmentApplication
2021-03-03 17:34:44.730 INFO 28593 --- [main] c.p.s.SpringAssignmentApplication : Started SpringAssignmentApplication in 1.662 se
TrainTicket executed
com.practice.springAssignment.TrainTicket@50eca7c6
train booked from delhi to mumbai
Process finished with exit code 0
Run
TODO
Problems
Terminal
Build
Event Log
Build completed successfully in 1 sec, 867 ms (6 minutes ago)
6:1 LF UTF-8 4 spaces

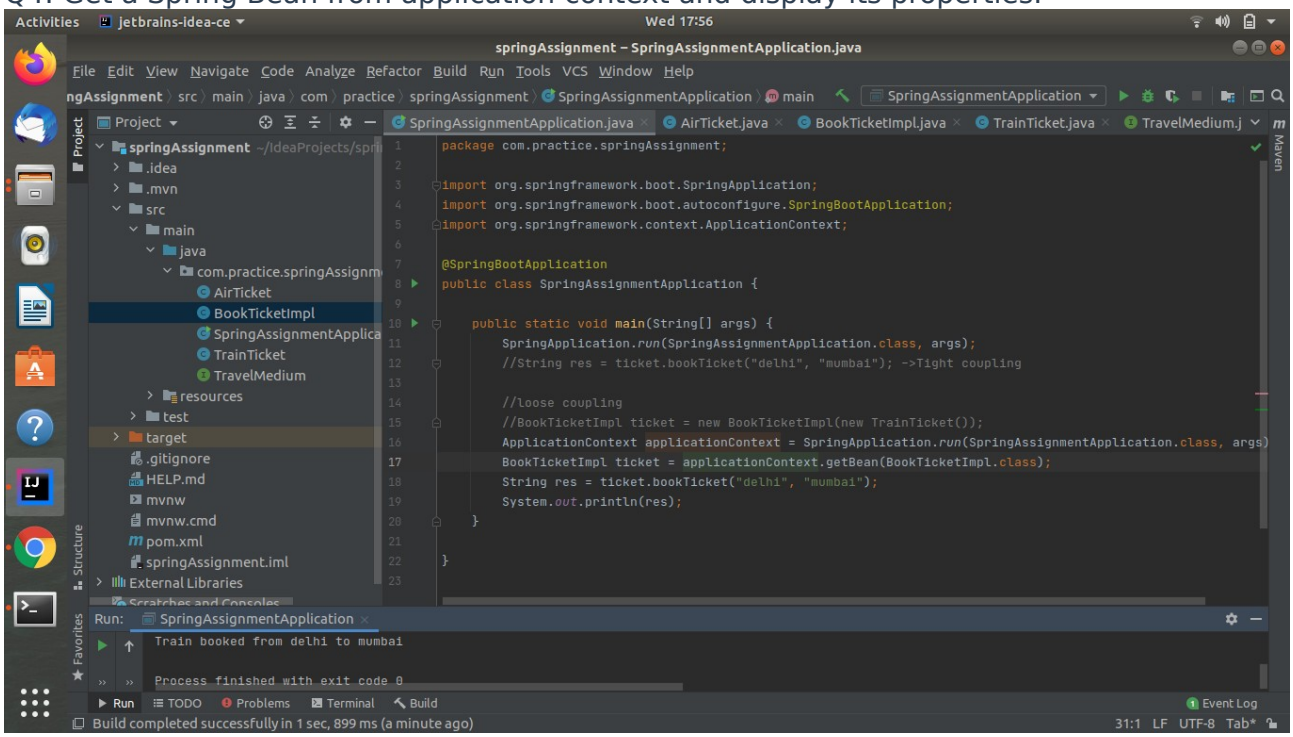
Q3: Use @Compenent and @Autowired annotations to in Loosely Coupled code for dependency management

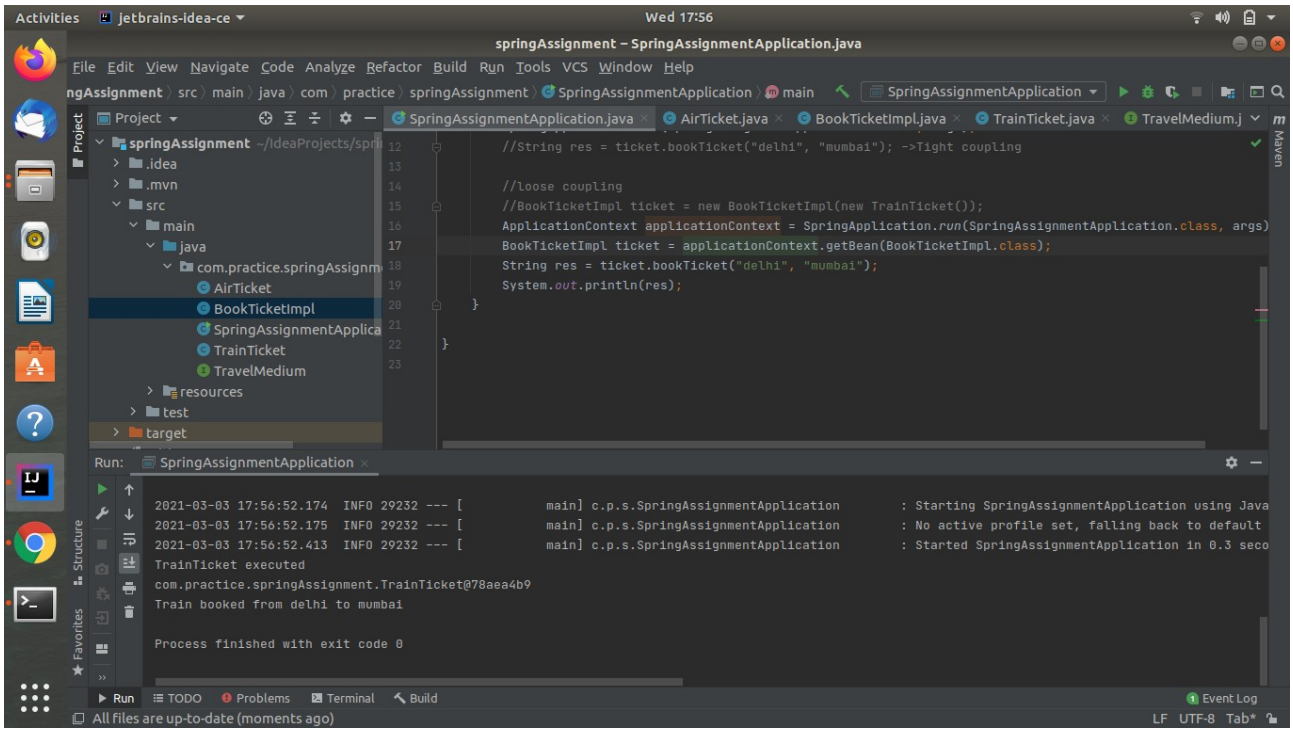




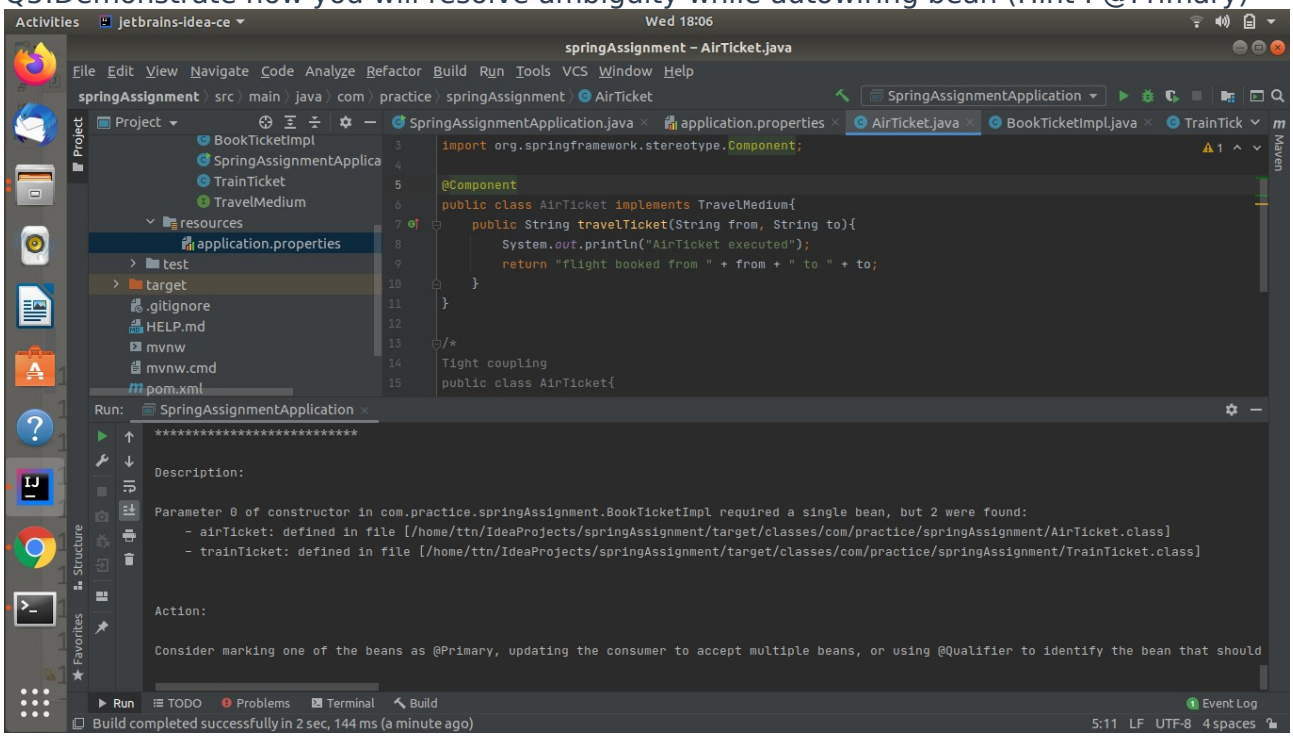

Activities
jetbrains-idea-ce
Wed 17:53
springAssignment – BookTicketImpl.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
springAssignment 〉 src 〉 main 〉 java 〉 com 〉 practice 〉 springAssignment 〉 BookTicketImpl 〉 bookTicket
SpringAssignmentApplication
Project
springAssignment ~/IdeaProjects/spri
.idea
.mvn
src
main
java
com.practice.springAssignm
AirTicket
BookTicketImpl
SpringAssignmentApplica
TrainTicket
TravelMedium
resources
test
target
.gitignore
HELP.md
SpringAssignmentApplication.java
AirTicket.java
BookTicketImpl.java
TrainTicket.java
TravelMedium.j
public class BookTicketImpl {
@Autowired
TravelMedium travelMedium;
BookTicketImpl(TravelMedium tm){
this.travelMedium = tm;
}
public String bookTicket(String from, String to){
String tic = travelMedium.travelTicket(from, to);
System.out.println(travelMedium);
return tic;
/*
Tight coupling
TrainTicket bookTicket = new TrainTicket();
String tic = bookTicket.travelTicket(from, to);
return tic;
*/
Run: SpringAssignmentApplication
2021-03-03 17:34:43.833 INFO 28593 --- [main] c.p.s.SpringAssignmentApplication : No active profile set, falling back to default
2021-03-03 17:34:44.730 INFO 28593 --- [main] c.p.s.SpringAssignmentApplication : Started SpringAssignmentApplication in 1.662 se
TrainTicket executed
com.practice.springAssignment.TrainTicket@50eca7c6
train booked from delhi to mumbai
Process finished with exit code 0
Run
TODO
Problems
Terminal
Build
Event Log
Build completed successfully in 1 sec, 867 ms (19 minutes ago)
18:20 LF UTF-8 4 spaces

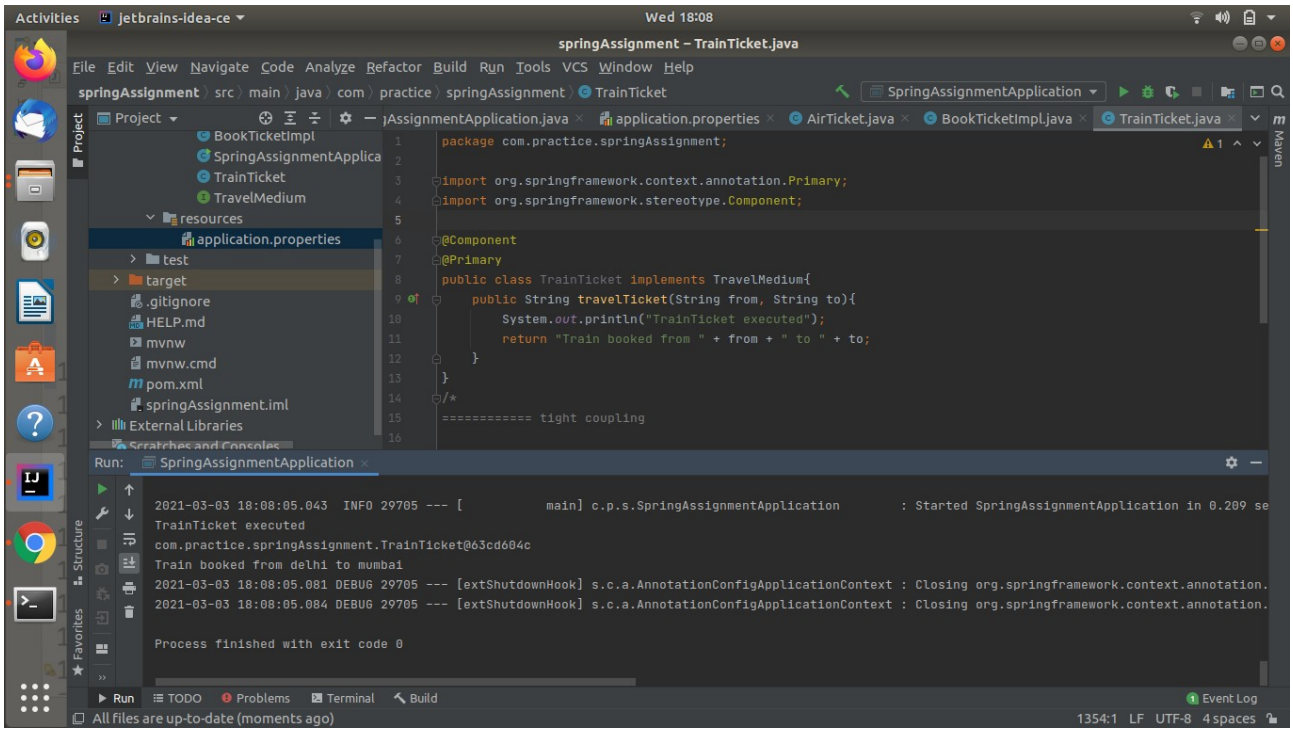
Q4: Get a Spring Bean from application context and display its properties.





Q5:Demonstrate how you will resolve ambiguity while autowiring bean (Hint : @Primary)





Q6: Perform Constructor Injection in a Spring Bean