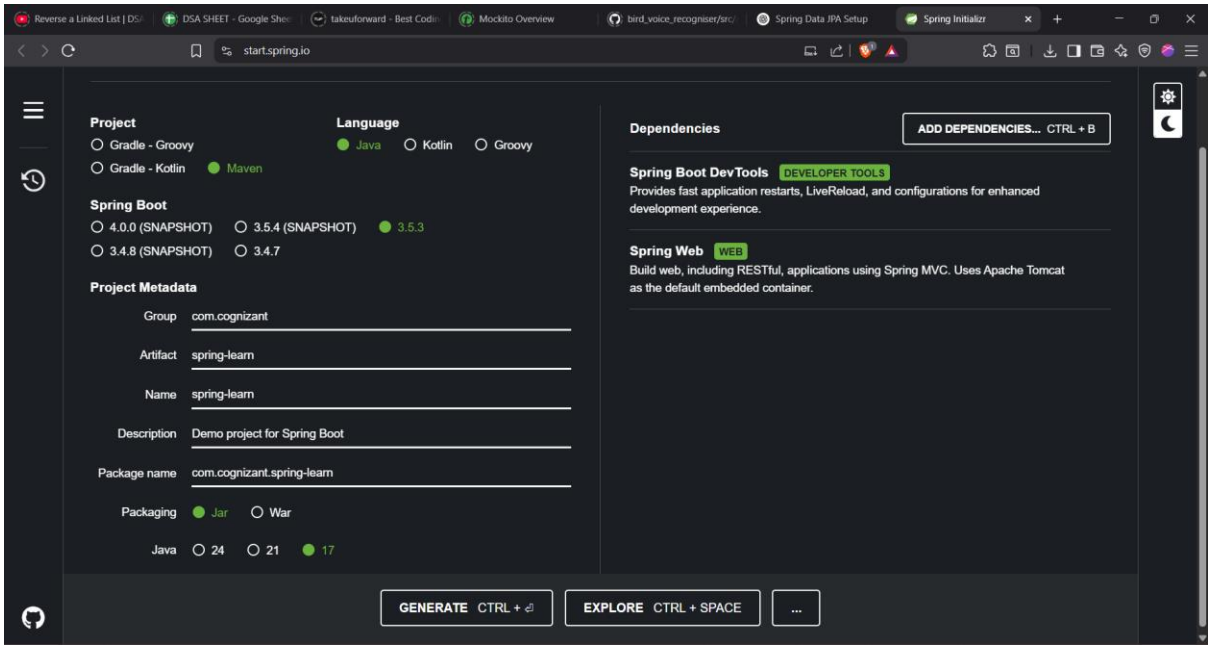
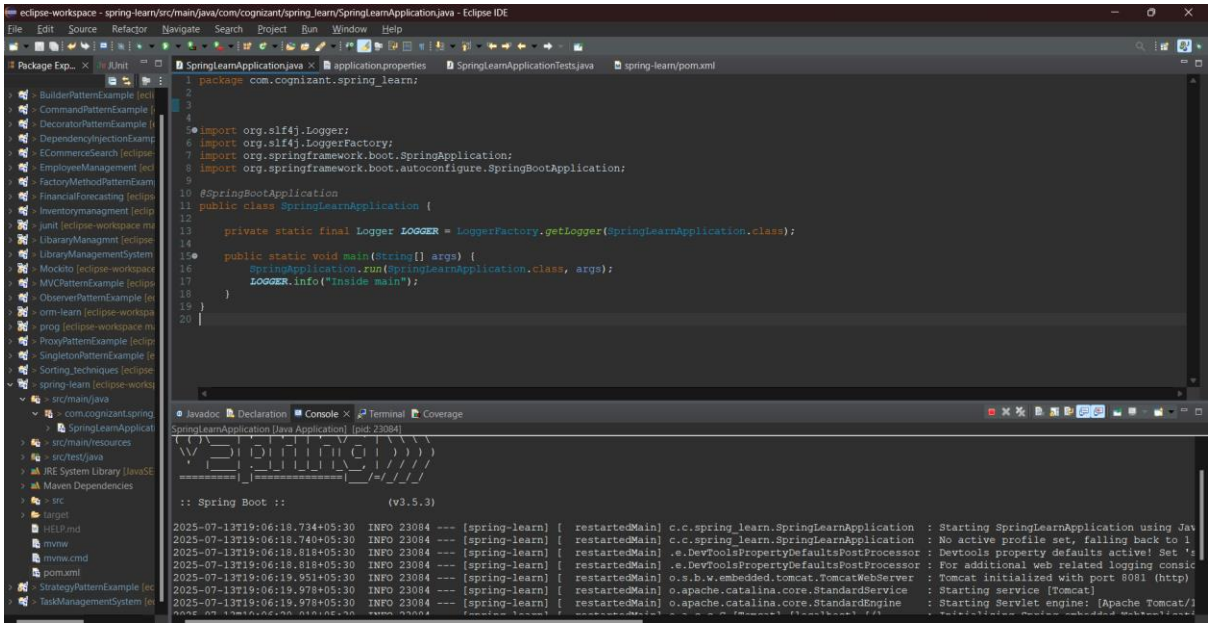
Hands on 1

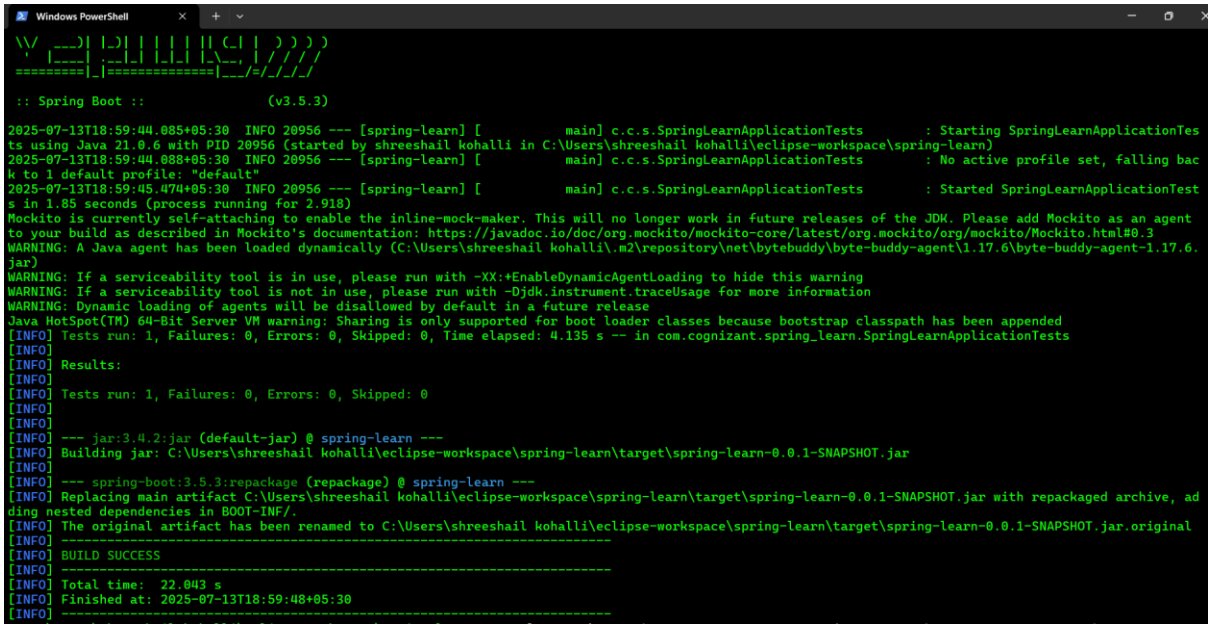
Create a Spring Web Project using Maven :

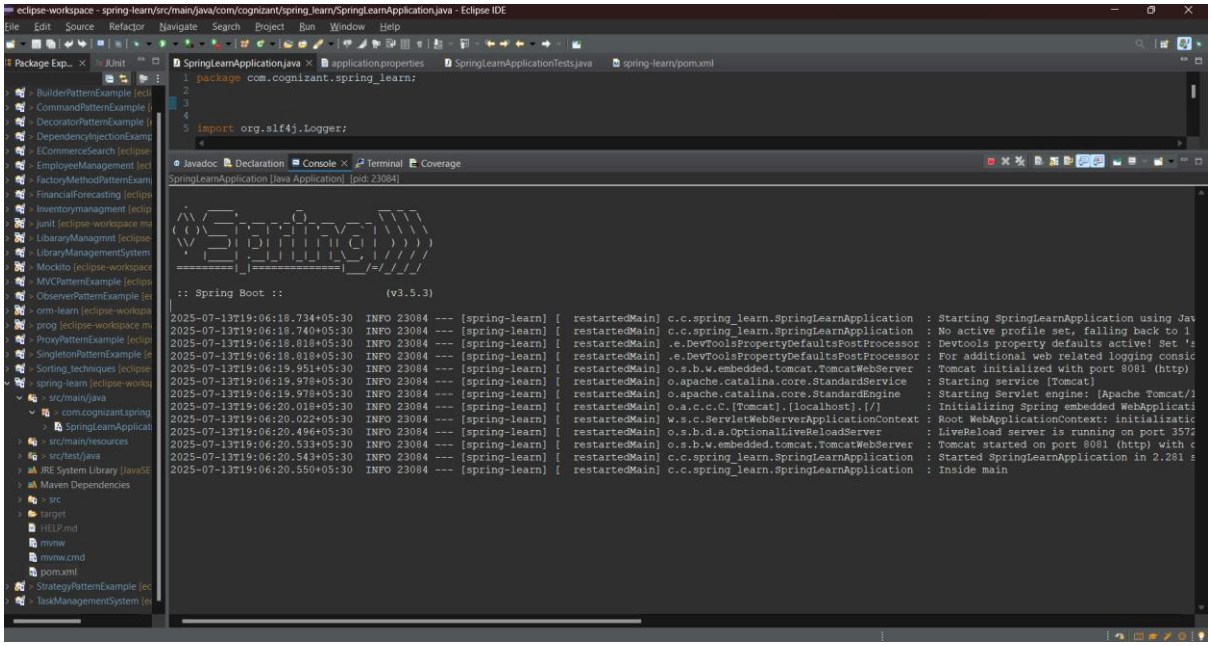




Output:

mvn clean package





Hands on 2

Spring Core – Load SimpleDateFormat from Spring Configuration XML :

Date-format.xml:

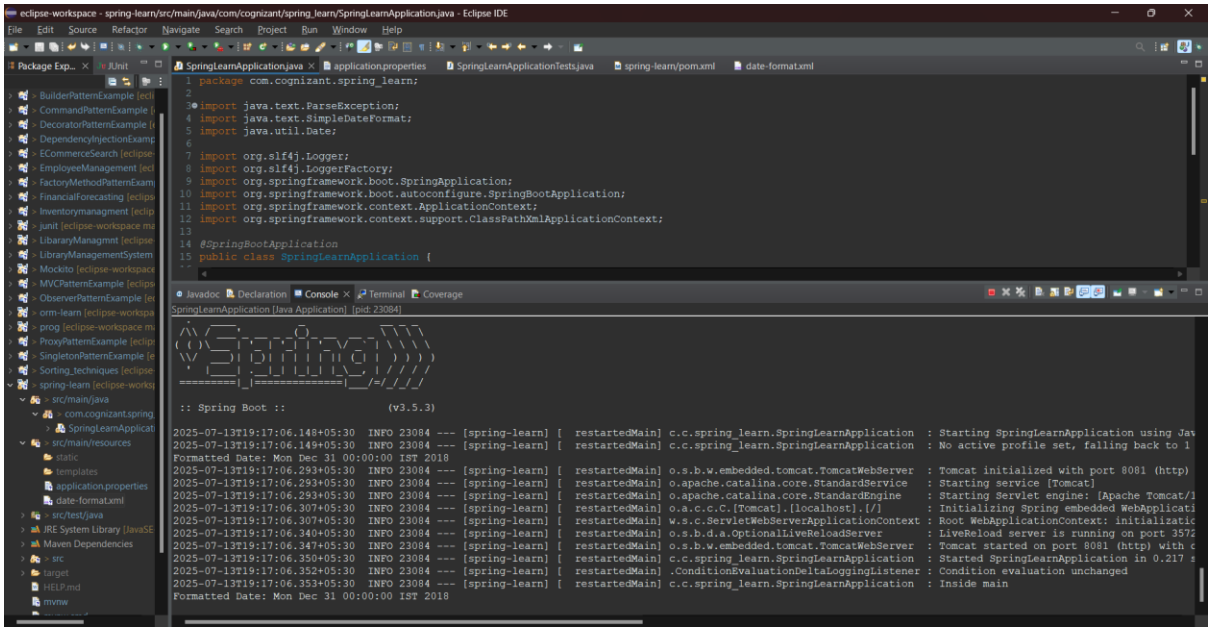
```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="
          http://www.springframework.org/schema/beans
          https://www.springframework.org/schema/beans/spring-beans.xsd">

    <!-- Define the SimpleDateFormat bean -->
    <bean id="dateFormat" class="java.text.SimpleDateFormat">
```

```
        <constructor-arg value="dd/MM/yyyy"/>
    </bean>

</beans>
```

springLearnApplication.java:

```
package com.cognizant.spring_learn;

import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

@SpringBootApplication
public class SpringLearnApplication {

    private static final Logger LOGGER =
LoggerFactory.getLogger(SpringLearnApplication.class);

    public static void main(String[] args) {
        SpringApplication.run(SpringLearnApplication.class, args);
        LOGGER.info("Inside main");
        displayDate();
    }

    private static void displayDate() {
        ApplicationContext context = new
ClassPathXmlApplicationContext("date-format.xml");

        SimpleDateFormat format = context.getBean("dateFormat",
SimpleDateFormat.class);
        try {
            Date date = format.parse("31/12/2018");
            LOGGER.debug("Parsed Date: {}", date);
            System.out.println("Formatted Date: " + date);
        } catch (ParseException e) {
            LOGGER.error("Date parsing failed", e);
        }
    }
}
```

Output:


eclipse-workspace - spring-learn/src/main/java/com/cognizant/spring_learn/SpringLearnApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Exp... JUnit
SpringLearnApplication.java application.properties SpringLearnApplicationTests.java spring-learn/pom.xml date-format.xml
1 package com.cognizant.spring_learn;
3 import java.text.ParseException;
4 import java.text.SimpleDateFormat;
5 import java.util.Date;
7 import org.slf4j.Logger;
8 import org.slf4j.LoggerFactory;
9 import org.springframework.boot.SpringApplication;
10 import org.springframework.boot.autoconfigure.SpringBootApplication;
11 import org.springframework.context.ApplicationContext;
12 import org.springframework.context.support.ClassPathXmlApplicationContext;
14 @SpringBootApplication
15 public class SpringLearnApplication {
Javadoc Declaration Console Terminal Coverage
SpringLearnApplication [Java Application] [pid: 23084]
:: Spring Boot :: (v3.5.3)
2025-07-13T19:17:06.148+05:30 INFO 23084 --- [spring-learn] [restartedMain] c.c.spring_learn.SpringLearnApplication : Starting SpringLearnApplication using Jav
2025-07-13T19:17:06.149+05:30 INFO 23084 --- [spring-learn] [restartedMain] c.c.spring_learn.SpringLearnApplication : No active profile set, falling back to 1
Formatted Date: Mon Dec 31 00:00:00 IST 2018
2025-07-13T19:17:06.293+05:30 INFO 23084 --- [spring-learn] [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8081 (http)
2025-07-13T19:17:06.293+05:30 INFO 23084 --- [spring-learn] [restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-13T19:17:06.293+05:30 INFO 23084 --- [spring-learn] [restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/1
2025-07-13T19:17:06.307+05:30 INFO 23084 --- [spring-learn] [restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicati
2025-07-13T19:17:06.307+05:30 INFO 23084 --- [spring-learn] [restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializatic
2025-07-13T19:17:06.340+05:30 INFO 23084 --- [spring-learn] [restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 3572
2025-07-13T19:17:06.347+05:30 INFO 23084 --- [spring-learn] [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8081 (http) with c
2025-07-13T19:17:06.350+05:30 INFO 23084 --- [spring-learn] [restartedMain] c.c.spring_learn.SpringLearnApplication : Started SpringLearnApplication in 0.217 s
2025-07-13T19:17:06.352+05:30 INFO 23084 --- [spring-learn] [restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged
2025-07-13T19:17:06.353+05:30 INFO 23084 --- [spring-learn] [restartedMain] c.c.spring_learn.SpringLearnApplication : Inside main
Formatted Date: Mon Dec 31 00:00:00 IST 2018