

Create a Spring Web Project using Maven

SpringLearnApplication.java:

```
package com.cognizant.spring_learn;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringLearnApplication {

    public static void main(String[] args) {

        System.out.println("START: SpringLearnApplication main()");

        SpringApplication.run(SpringLearnApplication.class, args);

        System.out.println("END: SpringLearnApplication main()");

    }

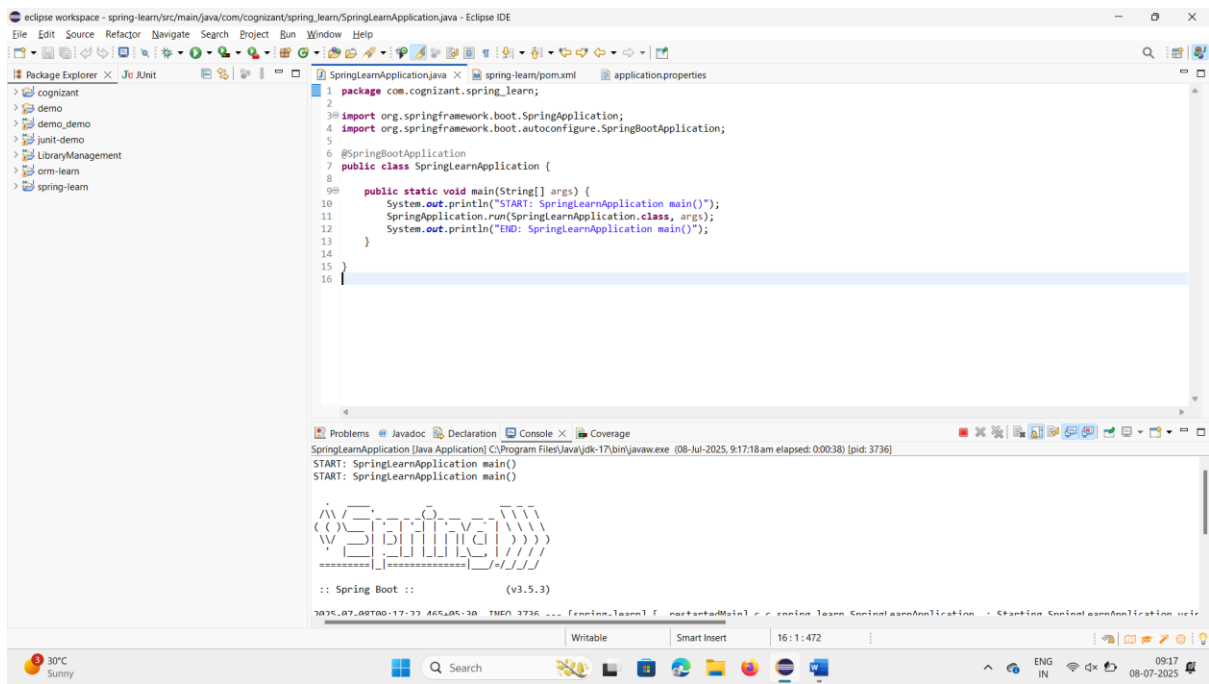
}
```

application.Properties:

```
spring.application.name=spring-learn

server.port=8080
```

OUTPUT:



The screenshot shows the Eclipse IDE with the file `SpringLearnApplication.java` open. The code is as follows:

```
1 package com.cognizant.spring_learn;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication
7 public class SpringLearnApplication {
8
9     public static void main(String[] args) {
10         System.out.println("START: SpringLearnApplication main()");
11         SpringApplication.run(SpringLearnApplication.class, args);
12         System.out.println("END: SpringLearnApplication main()");
13     }
14 }
15
16
```

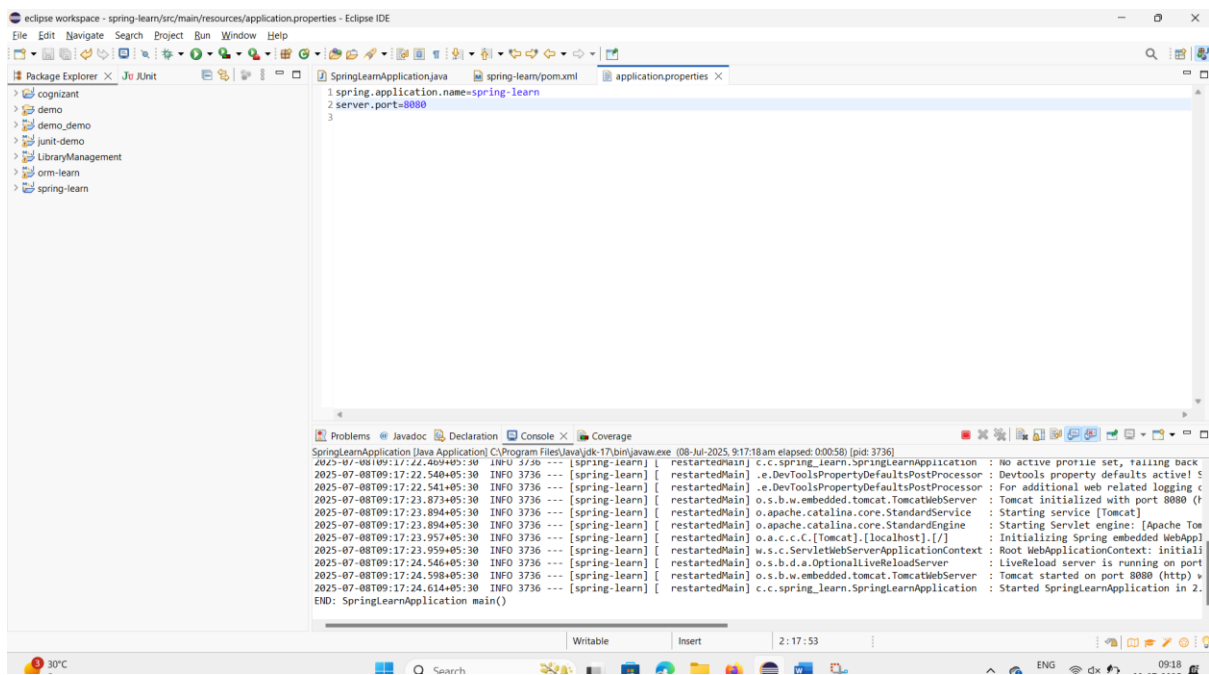
The console output shows the application starting successfully:

```
SpringLearnApplication [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Jul-2025, 9:17:18am elapsed: 0:00:38) [pid: 3736]
START: SpringLearnApplication main()
START: SpringLearnApplication main()

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        (v3.5.3)

:: Spring Boot ::

2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting SpringLearnApplication v3.5.3
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : No active profile set, falling back to default profile: 'default'
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Devtools property defaults active! See https://docs.spring.io/spring-boot/reference/appendixes/devtools.html for details
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Tomcat initialized with port 8080 (http)
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting service [Tomcat]
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting Servlet engine: [Apache Tomcat/9.0.90]
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Initializing Spring embedded WebApplicationContext
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Root WebApplicationContext: initialization completed
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : LiveReload server is running on port 34567
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Tomcat started on port 8080 (http)
2025-07-08T09:17:33.464+05:30 INFO 3736 --- [main:learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Started SpringLearnApplication in 2.14 seconds
END: SpringLearnApplication main()
```



The screenshot shows the Eclipse IDE with the file `application.properties` open. The content is as follows:

```
1 spring.application.name=spring_learn
2 server.port=8080
3
```

The console output shows the application starting successfully:

```
SpringLearnApplication [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Jul-2025, 9:17:18am elapsed: 0:00:58) [pid: 3736]
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : No active profile set, falling back to default profile: 'default'
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Devtools property defaults active! See https://docs.spring.io/spring-boot/reference/appendixes/devtools.html for details
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Tomcat initialized with port 8080 (http)
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting service [Tomcat]
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting Servlet engine: [Apache Tomcat/9.0.90]
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Initializing Spring embedded WebApplicationContext
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Root WebApplicationContext: initialization completed
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : LiveReload server is running on port 34567
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Tomcat started on port 8080 (http)
2025-07-08T09:17:22.540+05:30 INFO 3736 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Started SpringLearnApplication in 2.14 seconds
END: SpringLearnApplication main()
```

Spring Core – Load SimpleDateFormat from Spring Configuration XML

SpringLearnApplication.java:

```
package com.cognizant.spring_learn;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class SpringLearnApplication {

    public static void main(String[] args) throws ParseException {

        displayDate();

    }

    public static void displayDate() throws ParseException {

        ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");

        SimpleDateFormat format = context.getBean("dateFormat", SimpleDateFormat.class);

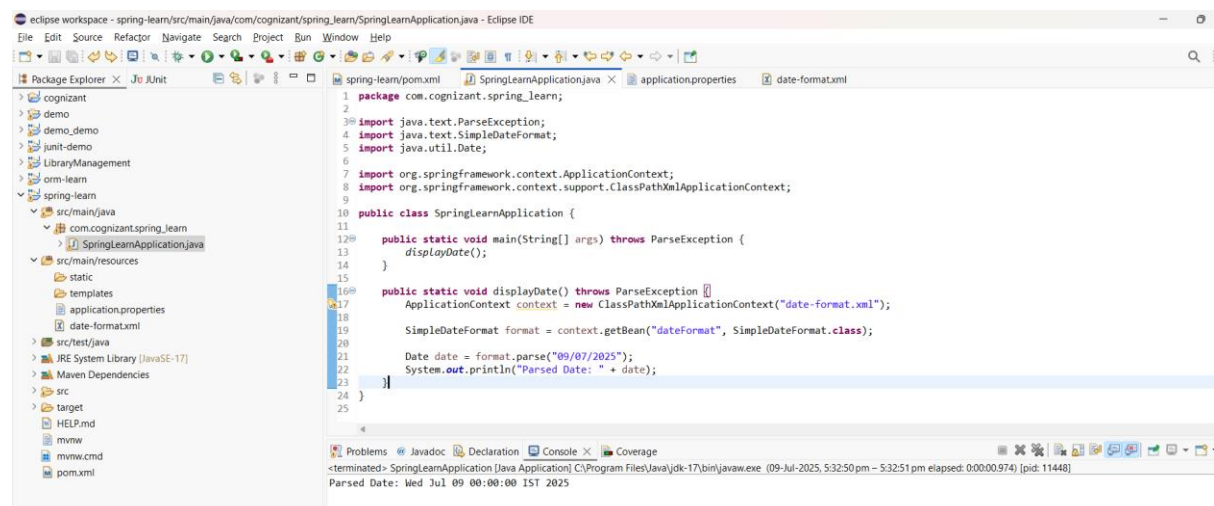
        Date date = format.parse("09/07/2025");

        System.out.println("Parsed Date: " + date);

    }

}
```

OUTPUT:

The screenshot shows the Eclipse IDE interface. On the left, the Package Explorer displays the project structure, including the 'src/main/java' directory and the 'com.cognizant.spring_learn' package. The main editor window shows the 'SpringLearnApplication.java' file, which contains the code for loading and parsing a date from an XML configuration file. The code is as follows:

```
1 package com.cognizant.spring_learn;
2
3 import java.text.ParseException;
4 import java.text.SimpleDateFormat;
5 import java.util.Date;
6
7 import org.springframework.context.ApplicationContext;
8 import org.springframework.context.support.ClassPathXmlApplicationContext;
9
10 public class SpringLearnApplication {
11
12     public static void main(String[] args) throws ParseException {
13         displayDate();
14     }
15
16     public static void displayDate() throws ParseException {
17         ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
18         SimpleDateFormat format = context.getBean("dateFormat", SimpleDateFormat.class);
19         Date date = format.parse("09/07/2025");
20         System.out.println("Parsed Date: " + date);
21     }
22 }
23
24
25
```

At the bottom of the IDE, the Console window shows the output of the application: 'Parsed Date: Wed Jul 09 00:00:00 IST 2025'. The console also displays the standard Eclipse IDE footer information, including the Java version (17) and the IDE version (2023-09).