

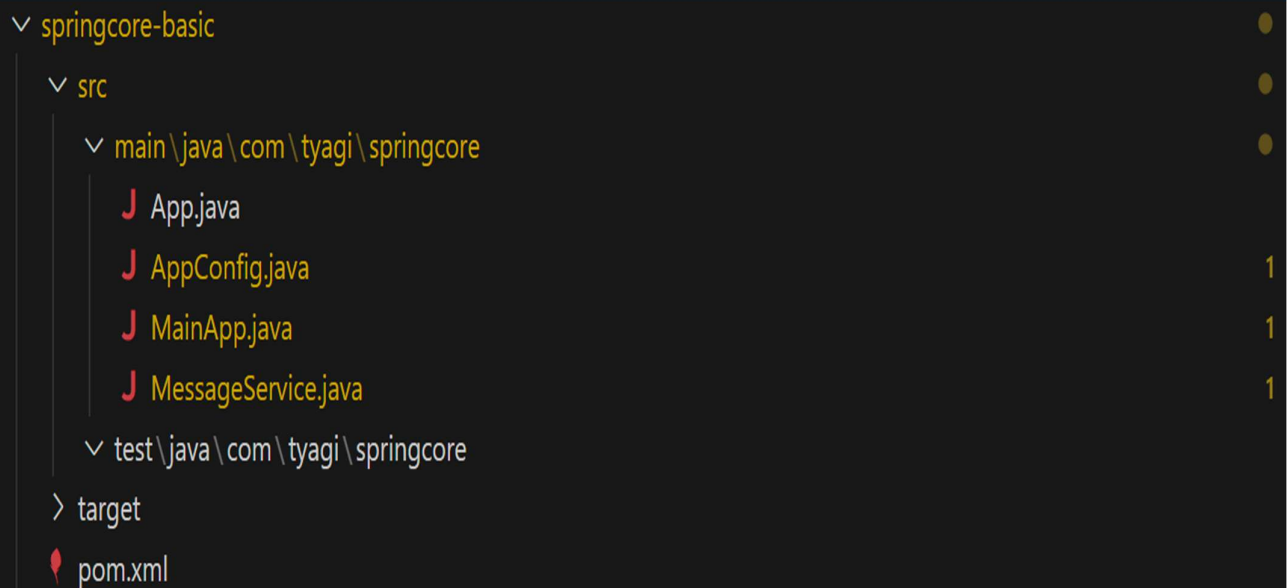
## Week3\_1\_Spring Core and Maven\_Exercise1\_Configuring a Basic Spring Application

### Creating Project:

```
/maven-archetype-quickstart-1.0.jar (4.3 kB at 123 kB/s)
[INFO] -----
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-quickstart:1.0
[INFO] -----
[INFO] Parameter: basedir, Value: C:\Users\veert\OneDrive\Desktop\JUnit
[INFO] Parameter: package, Value: com.tyagi.springcore
[INFO] Parameter: groupId, Value: com.tyagi.springcore
[INFO] Parameter: artifactId, Value: springcore-basic
[INFO] Parameter: packageName, Value: com.tyagi.springcore
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: C:\Users\veert\OneDrive\Desktop\JUnit\springcore-basic
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 11.500 s
[INFO] Finished at: 2025-07-03T21:42:42+05:30
[INFO] -----

C:\Users\veert\OneDrive\Desktop\JUnit>
```

### Folder Structure:



```

v springcore-basic
  v src
    v main\java\com\tyagi\springcore
      J App.java
      J AppConfig.java
      J MainApp.java
      J MessageService.java
    v test\java\com\tyagi\springcore
  > target
  pom.xml
```

## Pom.xml

```
springcore-basic > pom.xml
1  <project xmlns="http://maven.apache.org/POM/4.0.0"
2      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
4      http://maven.apache.org/xsd/maven-4.0.0.xsd">
5      <modelVersion>4.0.0</modelVersion>
6      <groupId>com.tyagi.springcore</groupId>
7      <artifactId>springcore-basic</artifactId>
8      <version>1.0-SNAPSHOT</version>
9
10     <dependencies>
11         <dependency>
12             <groupId>org.springframework</groupId>
13             <artifactId>spring-context</artifactId>
14             <version>5.3.22</version>
15         </dependency>
16     </dependencies>
17     <build>
18         <plugins>
19             <plugin>
20                 <groupId>org.codehaus.mojo</groupId>
21                 <artifactId>exec-maven-plugin</artifactId>
22                 <version>3.1.0</version>
23                 <configuration>
24                     <mainClass>com.tyagi.springcore.MainApp</mainClass>
25                 </configuration>
26             </plugin>
27         </plugins>
28     </build>
29 </project>
30
```

## AppConfig.java

```
springcore-basic > src > main > java > com > tyagi > springcore > AppConfig.java > AppConfig
1  package com.tyagi.springcore;
2
3  import org.springframework.context.annotation.Bean;
4  import org.springframework.context.annotation.Configuration;
5
6  @Configuration
7  public class AppConfig {
8      @Bean
9      public MessageService messageService() {
10         return new MessageService();
11     }
12 }
```

## MessageService.java

```
springcore-basic > src > main > java > com > tyagi > springcore > J MessageService.java > ...
1  package com.tyagi.springcore;
2
3  public class MessageService {
4      public void printMessage() {
5          System.out.println(x:"Spring Core Basic Application Running!");
6      }
7  }
8
```

## MainApp.java

```
springcore-basic > src > main > java > com > tyagi > springcore > J MainApp.java > MainApp
1  package com.tyagi.springcore;
2
3  import org.springframework.context.ApplicationContext;
4  import org.springframework.context.annotation.AnnotationConfigApplicationContext;
5
6  public class MainApp {
7      Run | Debug
8      public static void main(String[] args) {
9          ApplicationContext context = new AnnotationConfigApplicationContext(AppConfig.class);
10         MessageService ms = context.getBean(MessageService.class);
11         ms.printMessage();
12     }
13 }
```

## Output

```
[INFO] --- exec:3.1.0:java (default-cli) @ springcore-basic ---
Spring Core Basic Application Running!
[INFO] -----
[INFO] --- exec:3.1.0:java (default-cli) @ springcore-basic ---
Spring Core Basic Application Running!
[INFO] -----
[INFO] --- exec:3.1.0:java (default-cli) @ springcore-basic ---
Spring Core Basic Application Running!
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.625 s
[INFO] Finished at: 2025-07-03T22:01:42+05:30
[INFO] -----

C:\Users\veert\OneDrive\Desktop\JUnit\springcore-basic>
```