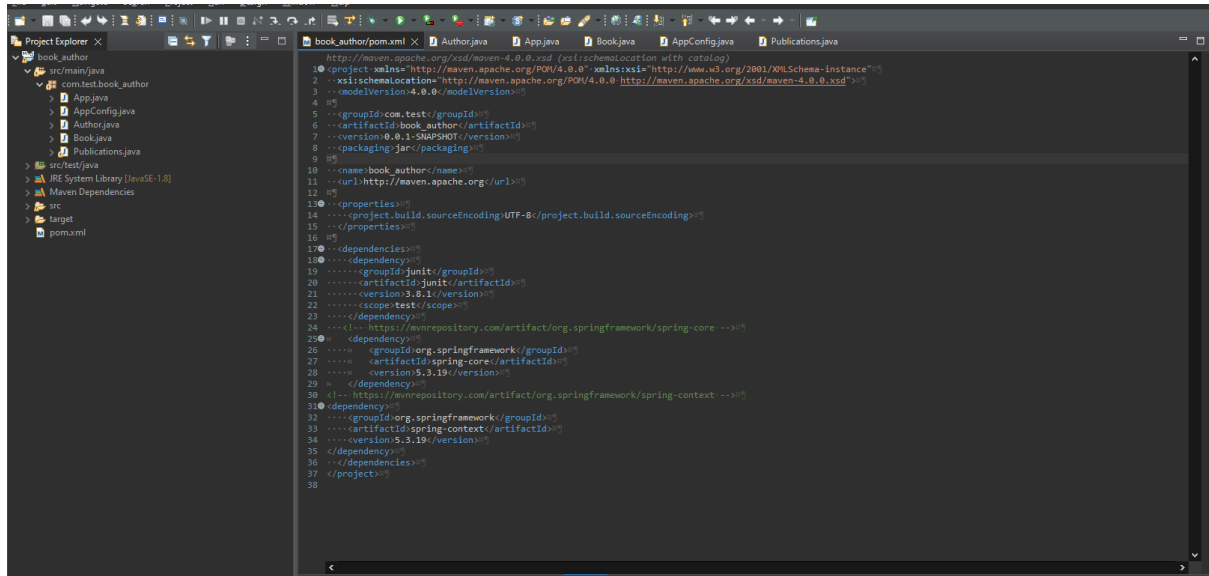
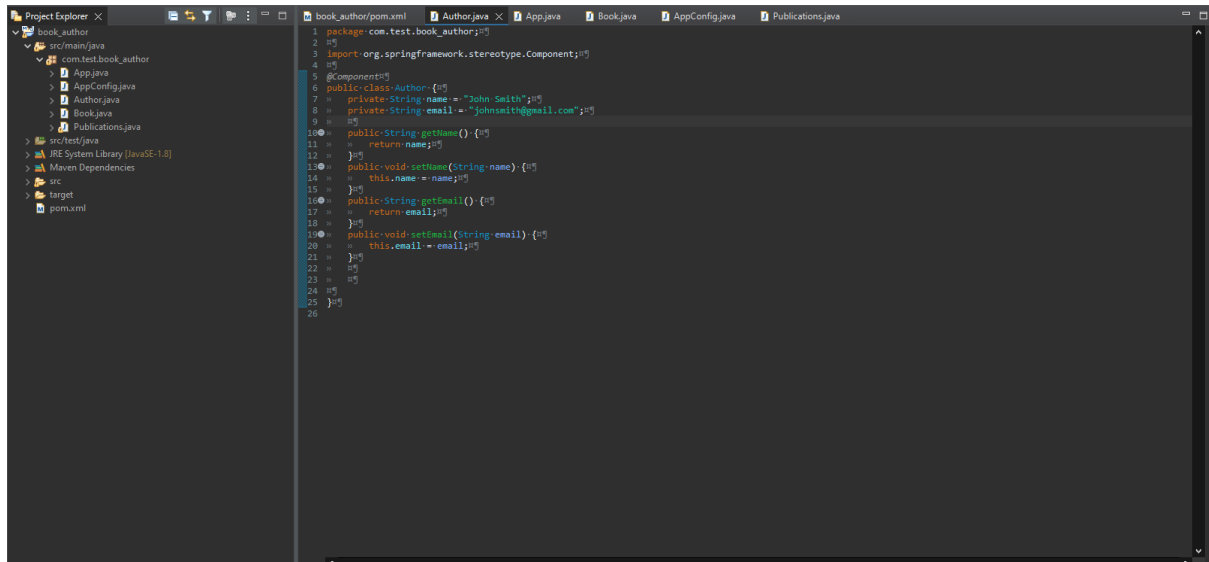


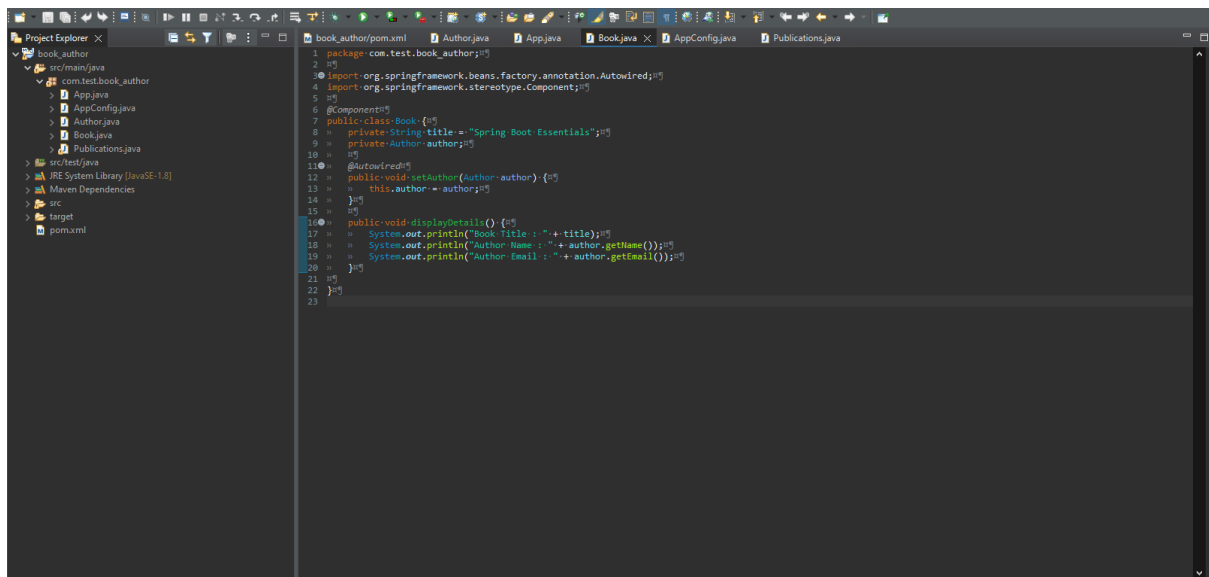
## Practical 1B Suraj S Kaduvetti 40772240015 F015



```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5   <groupId>com.test</groupId>
6   <artifactId>book_author</artifactId>
7   <version>0.0.1-SNAPSHOT</version>
8   <packaging>jar</packaging>
9   <name>book_author</name>
10  <url>http://maven.apache.org</url>
11  <properties>
12  </properties>
13  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
14  <dependencies>
15    <dependency>
16      <groupId>junit</groupId>
17      <artifactId>junit</artifactId>
18      <version>3.0.1</version>
19      <scope>test</scope>
20    </dependency>
21    <dependency>
22      <groupId>org.springframework</groupId>
23      <artifactId>spring-core</artifactId>
24      <version>5.3.19</version>
25    </dependency>
26    <dependency>
27      <groupId>org.springframework</groupId>
28      <artifactId>spring-context</artifactId>
29      <version>5.3.19</version>
30    </dependency>
31  </dependencies>
32  </project>
```

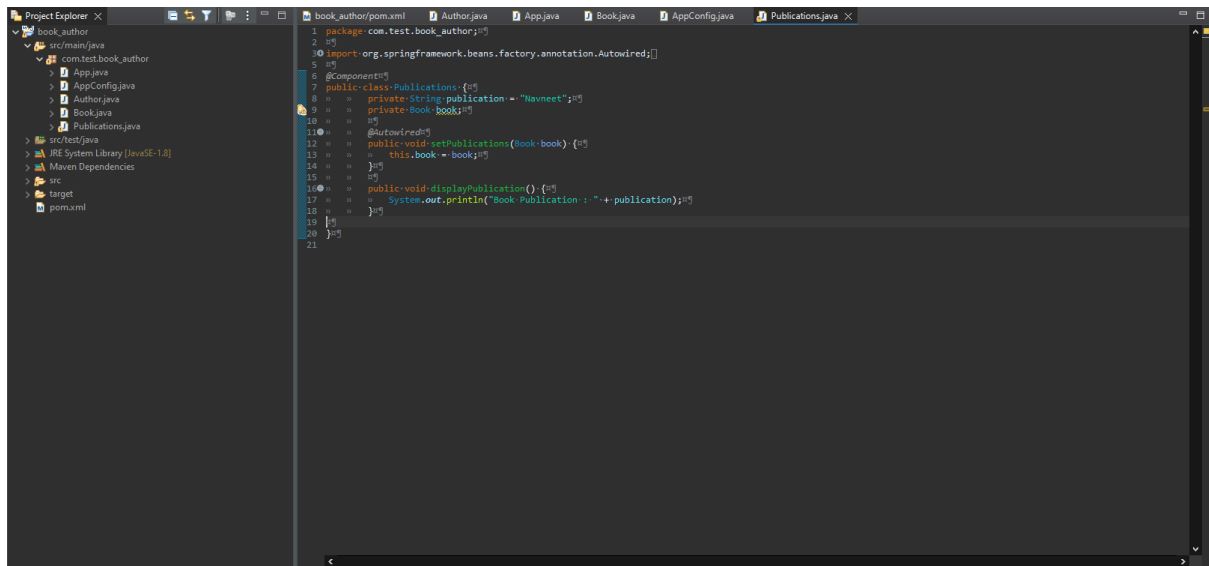


```
1 package com.test.book_author;
2
3 import org.springframework.stereotype.Component;
4
5 @Component
6 public class Author {
7     private String name = "John Smith";
8     private String email = "johnsmith@gmail.com";
9
10    public String getName() {
11        return name;
12    }
13
14    public void setName(String name) {
15        this.name = name;
16    }
17
18    public String getEmail() {
19        return email;
20    }
21
22    public void setEmail(String email) {
23        this.email = email;
24    }
25 }
26
```

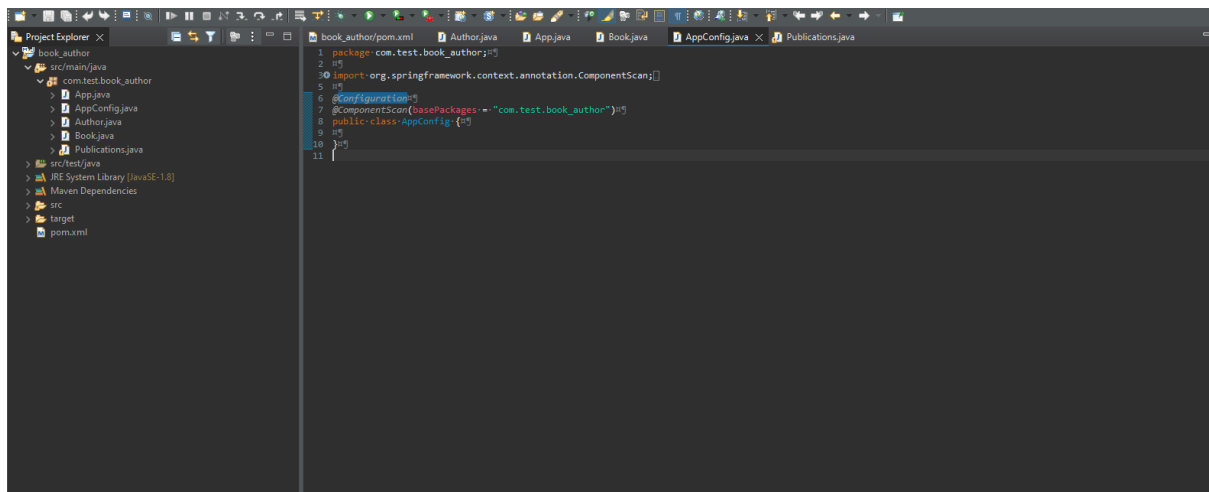


```
1 package com.test.book_author;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 public class Book {
8     private String title = "Spring Boot Essentials";
9     private Author author;
10
11    @Autowired
12    public void setAuthor(Author author) {
13        this.author = author;
14    }
15
16    public void displayDetails() {
17        System.out.println("Book Title : " + title);
18        System.out.println("Author Name : " + author.getName());
19        System.out.println("Author Email : " + author.getEmail());
20    }
21 }
22
23
```

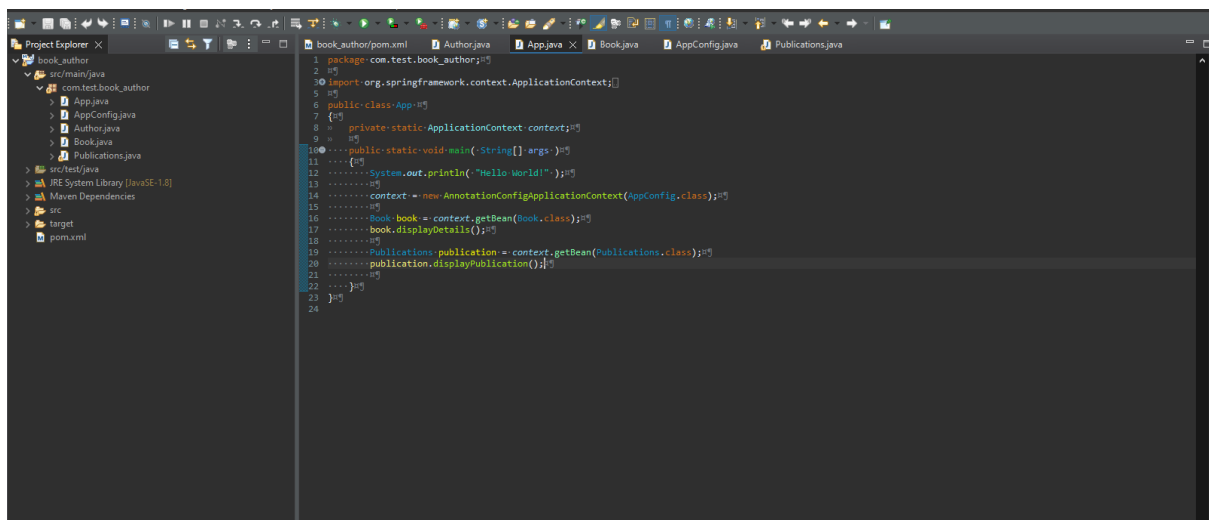
## Practical 1B Suraj S Kaduvetti 40772240015 F015



```
1 package com.test.book_author;
2
3
4
5
6 @Component
7 public class Publications {
8     private String publication = "Havneet";
9     private Book book;
10
11     @Autowired
12     public void setPublications(Book book) {
13         this.book = book;
14     }
15
16     public void displayPublication() {
17         System.out.println("Book Publication : " + publication);
18     }
19 }
20
21
```



```
1 package com.test.book_author;
2
3
4
5
6 @Configuration
7 @ComponentScan(basePackages = "com.test.book_author")
8 public class AppConfig {
9
10 }
11
```



```
1 package com.test.book_author;
2
3
4
5
6 import org.springframework.context.ApplicationContext;
7
8 public class App {
9     private static ApplicationContext context;
10
11     public static void main(String[] args) {
12         System.out.println("Hello World!");
13
14         context = new AnnotationConfigApplicationContext(AppConfig.class);
15
16         Book book = context.getBean(Book.class);
17         book.displayDetails();
18
19         Publications publication = context.getBean(Publications.class);
20         publication.displayPublication();
21
22     }
23 }
24
```