Program 3: Restful Controller:

Create a Spring Boot Application using Maven Plugin

- Write a sample REST Controller API using Spring Annotations
- Using Postman invoke the REST Controller to demonstrate end to end working

Book.java

```
package com.example.restful demo;
import jakarta.annotation.Nonnull;
public class Book {
       private Long id;
  public Long getId() {
              return id;
       public void setId(Long id) {
              this.id = id;
       public String getTitle() {
              return title;
       public void setTitle(String title) {
              this.title = title;
       public String getAuthor() {
              return author;
       public void setAuthor(String author) {
              this.author = author;
       public int getPublicationYear() {
              return publicationYear;
       public void setPublicationYear(int publicationYear) {
              this.publicationYear = publicationYear;
       private String title;
  private String author;
  private int publication Year;
BookController.java
package com.example.restful demo;
//imports
@RestController
@RequestMapping("/api/books")
public class BookController {
  private final List<Book> books = new ArrayList<Book>();
```

```
@GetMapping
  public List<Book> getAllBooks() {
    return books;
  @PostMapping
  public Book addBook(@RequestBody Book book) {
    books.add(book);
    return book;
main class:
package com.example.restful demo;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class RestfulDemoApplication {
      public static void main(String[] args) {
             SpringApplication.run(RestfulDemoApplication.class, args);
}
```