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** publicationYear;

}

**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);

}

}