

B.MANI HARIKA

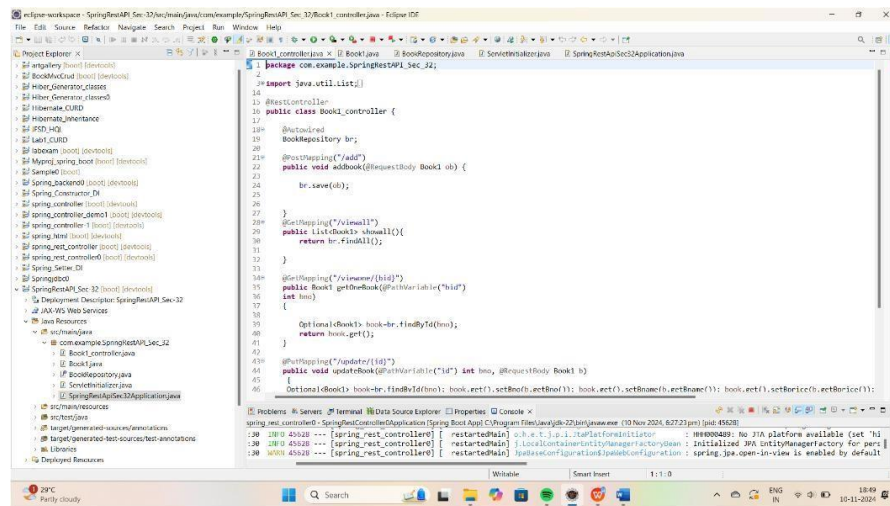
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LAB-08

JFSD+MICROSERVICES

Course code:22SDCS03

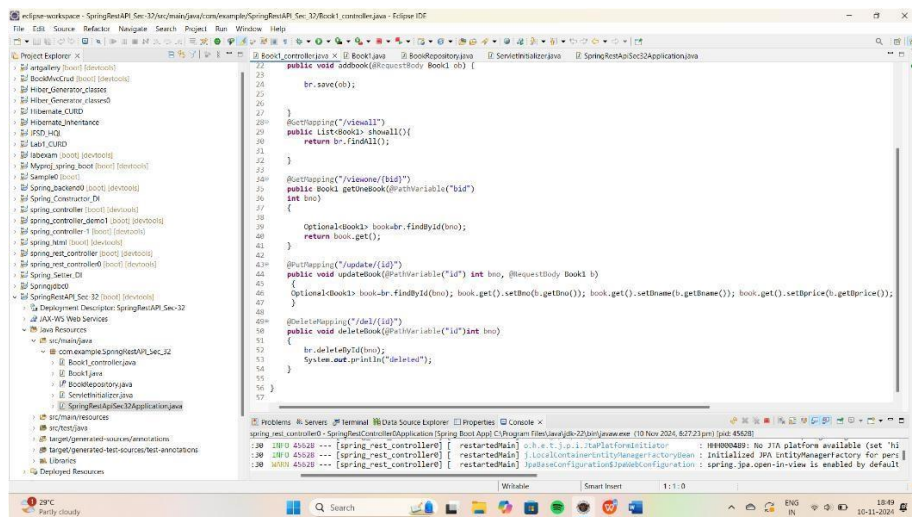
Book controller.java:



The screenshot shows an IDE with the following components:

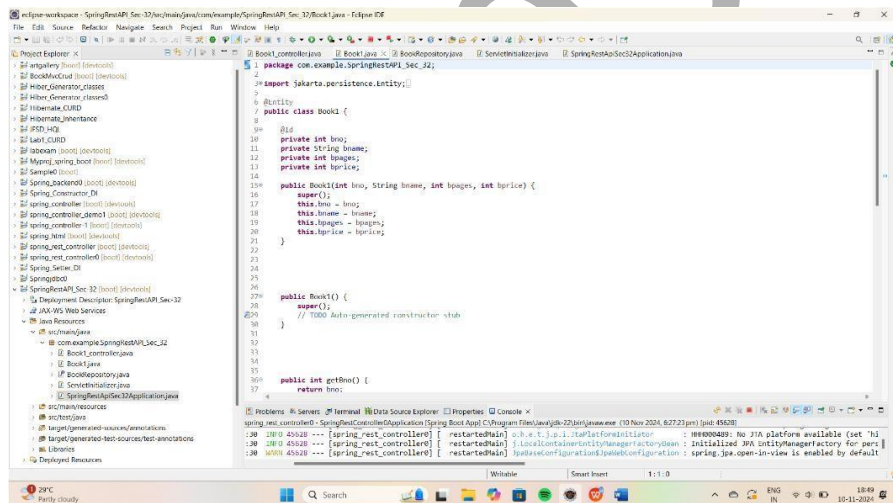
- Project Explorer:** Lists various Java files including `BookController.java`, `BookRepository.java`, `Book.java`, `BookRestController.java`, and `SpringRestAPIApplication.java`.
- Code Editor:** Displays the `BookController.java` file with the following code:

```
1 package com.example.springrestapi.sec32;  
2  
3 import java.util.List;  
4  
5 @RestController  
6 public class BookController {  
7  
8     @Autowired  
9     BookRepository br;  
10  
11     @PostMapping("/add")  
12     public void addBook(@RequestBody Book b) {  
13         br.save(b);  
14     }  
15  
16     @GetMapping("/findAll")  
17     public List<Book> findAll() {  
18         return br.findAll();  
19     }  
20  
21     @GetMapping("/findOne/{id}")  
22     public Book findOne(@PathVariable("id") int id) {  
23         Optional<Book> book = br.findById(id);  
24         return book.get();  
25     }  
26  
27     @PostMapping("/update/{id}")  
28     public void updateBook(@PathVariable("id") int id, @RequestBody Book b) {  
29         Optional<Book> book = br.findById(id);  
30         book.set(b.getName());  
31         book.set(b.getAuthor());  
32         book.set(b.getPrice());  
33         br.save(book);  
34     }  
35 }  
36
```
- Console:** Shows the output of the application, including the message: `18:00 45628 --- [spring_rest_controller] restartedMain [main] INFO org.springframework.boot.autoconfigure.logging.ConditionEvaluationReportLoggingListener : No JPA platform available (set 'hibernate.jpa.open-in-view' to 'true' to enable JPA open-in-view).`

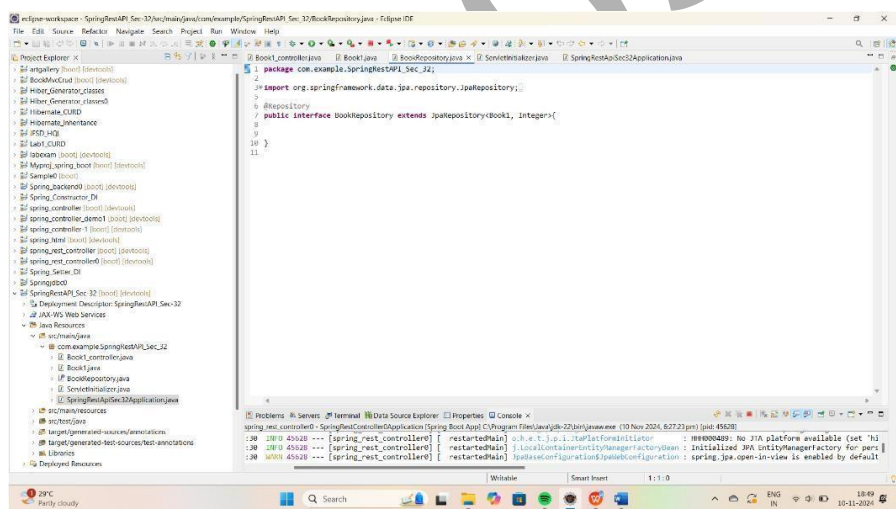
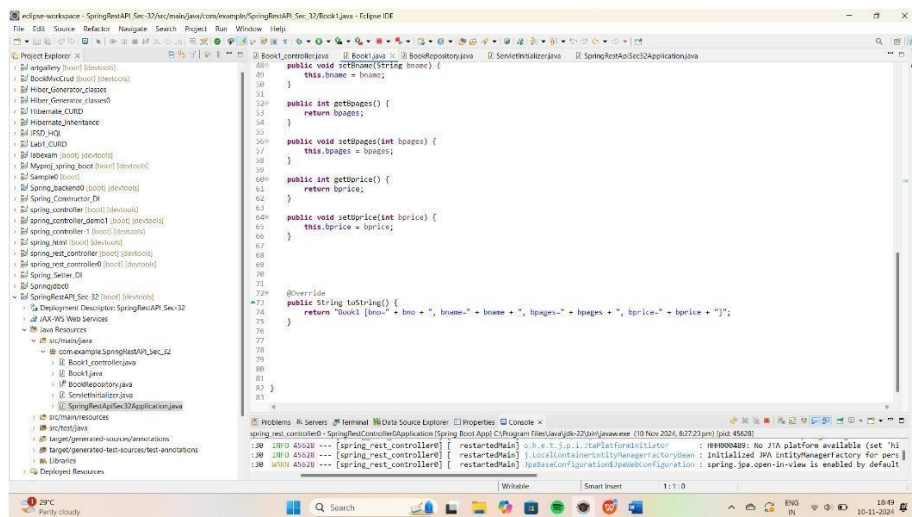


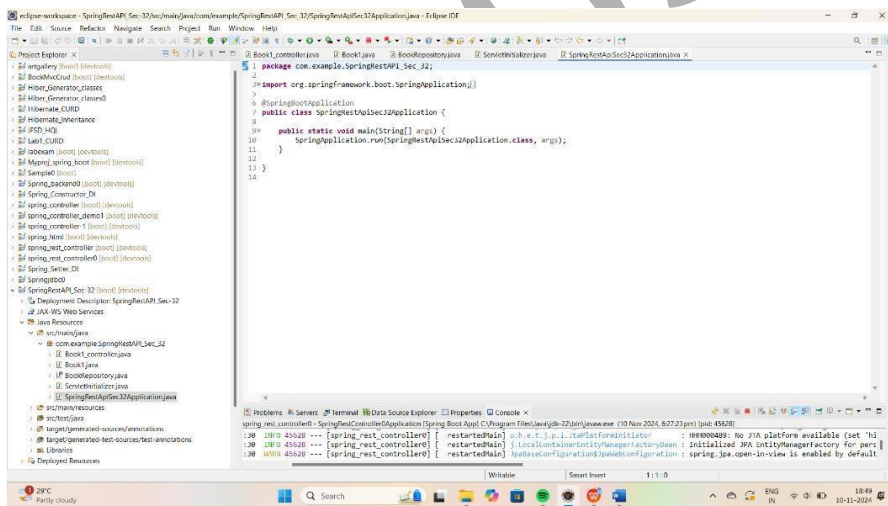
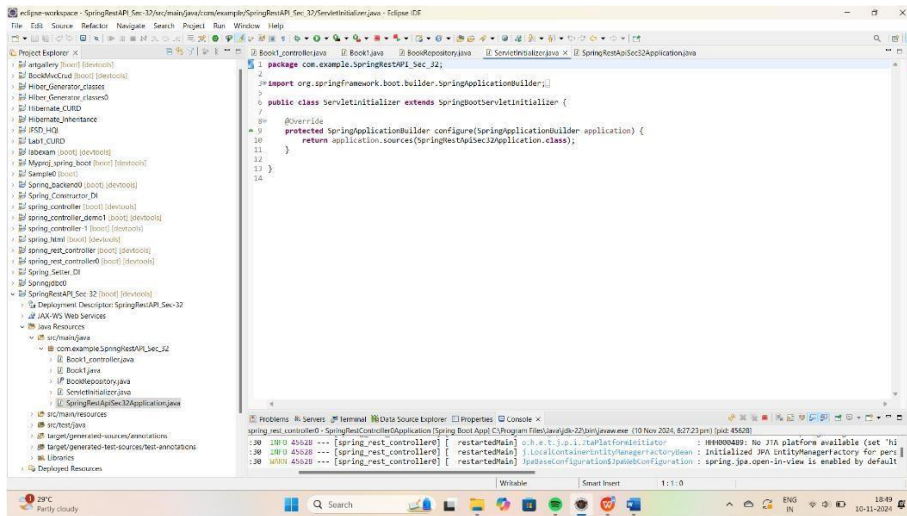
```
23 public void saveBook(@RequestBody Book b) {
24     br.save(b);
25 }
26
27 @PostMapping("/viewall")
28 public List<Book> showAll() {
29     return br.findAll();
30 }
31
32 @PostMapping("/viewone/{id}")
33 public Book getBookById(@PathVariable("id") int id) {
34     Optional<Book> book = br.findById(id);
35     return book.get();
36 }
37
38 @PutMapping("/update/{id}")
39 public void updateBook(@PathVariable("id") int id, @RequestBody Book b) {
40     Optional<Book> book = br.findById(id);
41     book.get().setName(b.getName());
42     book.get().setPrice(b.getPrice());
43 }
44
45 @DeleteMapping("/del/{id}")
46 public void deleteBook(@PathVariable("id") int id) {
47     br.deleteById(id);
48     System.out.println("deleted");
49 }
50
51 }
```

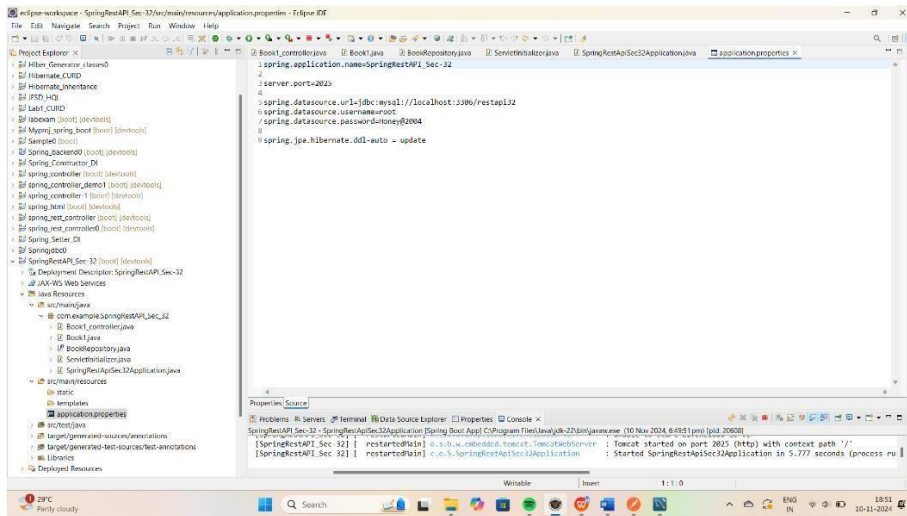
Book.java:



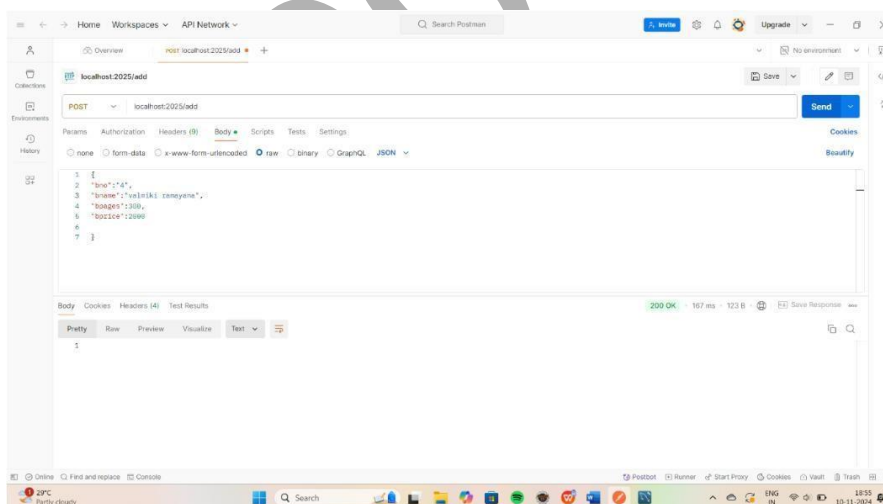
```
2 import jakarta.persistence.Entity;
3
4 @Entity
5 public class Book {
6
7     @Id
8     private int id;
9     private String name;
10    private int pages;
11    private int price;
12
13    public Book(int id, String name, int pages, int price) {
14        super();
15        this.id = id;
16        this.name = name;
17        this.pages = pages;
18        this.price = price;
19    }
20
21    public Book() {
22        super();
23        // TODO Auto-generated constructor stub
24    }
25
26    public int getId() {
27        return id;
28    }
29 }
```

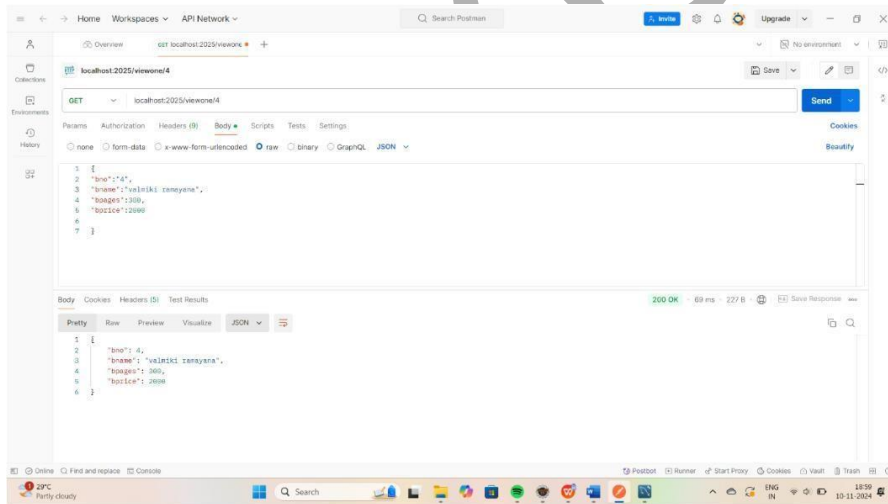
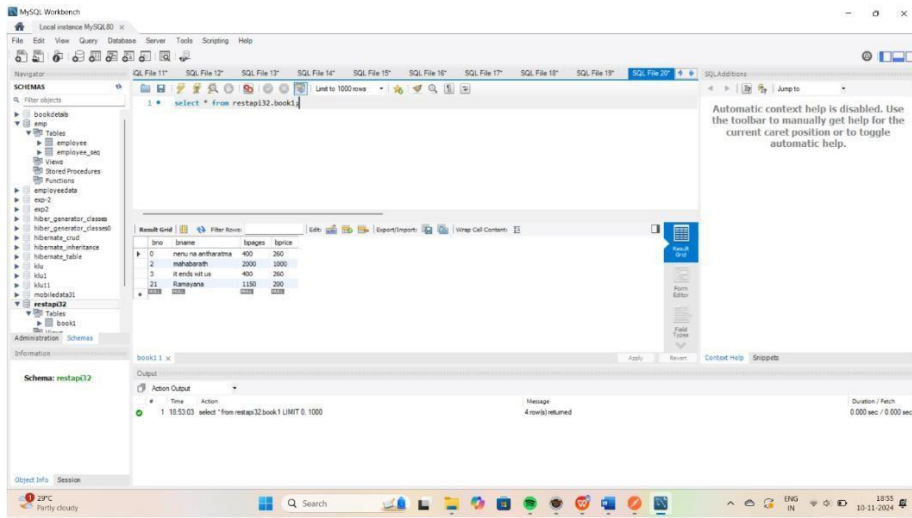


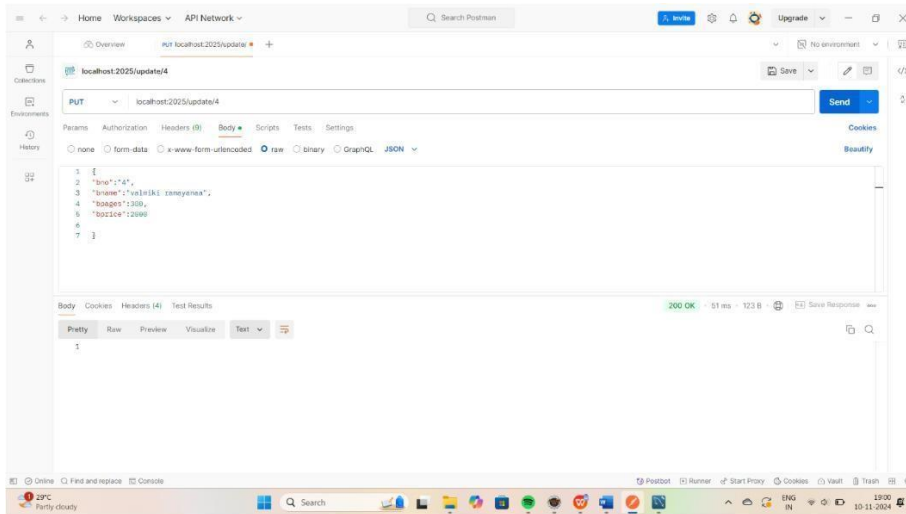




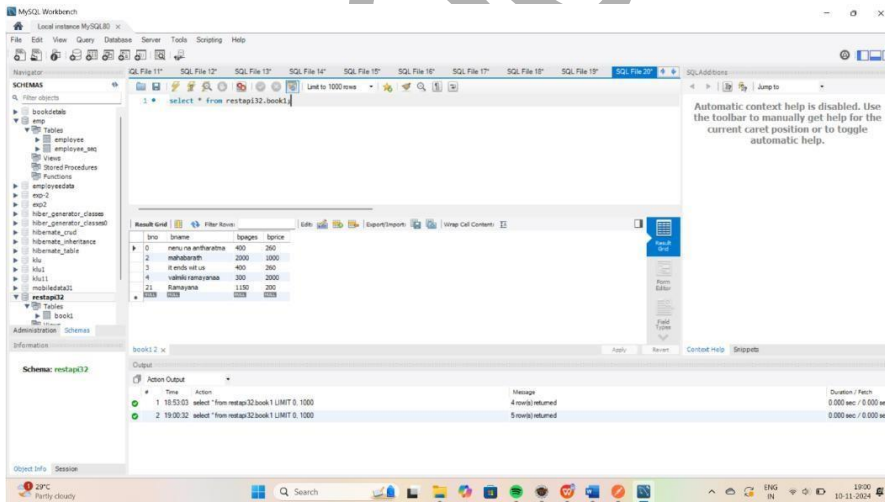
Output:

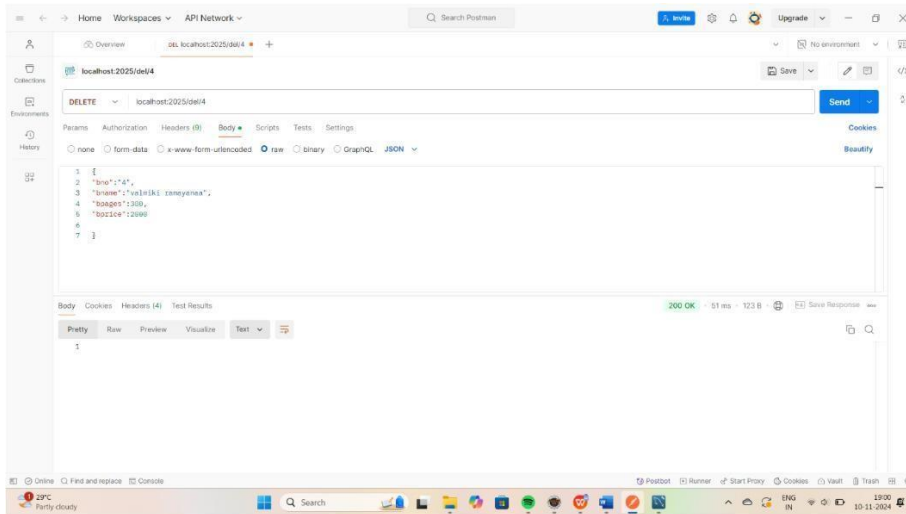






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