```
import org.springframework.web.bind.annotation.*;
import java.util.ArrayList;
import java.util.List;
@RestController
@RequestMapping("/api/tasks")
public class TaskController {
 private final List<Task> tasks = new ArrayList<>();
 private long nextld = 1;
  @GetMapping
  public List<Task> getAllTasks() {
   return tasks;
```

```
@GetMapping("/{id}")
public Task getTaskById(@PathVariable Long id) {
  for (Task task : tasks) {
   if (task.getId().equals(id)) {
      return task;
  return null;
@PostMapping
public Task createTask(@RequestBody Task task) {
  task.setId(nextId++);
  tasks.add(task);
  return task;
```

```
@PutMapping("/{id}")
public Task updateTask(@PathVariable Long id, @RequestBody Task updatedTask) {
 for (int i = o; i < tasks.size(); i++) {
    Task task = tasks.get(i);
    if (task.getId().equals(id)) {
     updatedTask.setId(id);
     tasks.set(i, updatedTask);
     return updatedTask;
 return null;
@DeleteMapping("/{id}")
public void deleteTask(@PathVariable Long id) {
 tasks.removelf(task -> task.getId().equals(id));
```