

*** Temporary Data Store CRUD ***

*** Using Get, Post, Put, Delete and Patch ***

TheKiranAcademy
GopalSing

```
package com.Gopal;
import java.util.ArrayList;
import java.util.List;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PatchMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
```



```
@RestController
public class StudentController {

    @RequestMapping("myName")
    public String myName() {
        return "Gopal";
    }

    ArrayList<Student> a = new ArrayList<Student>();

    public StudentController() {
        a.add(new Student(101, "Gopal"));
        a.add(new Student(102, "Sopan"));
    }

    @GetMapping("All")
    public ArrayList<Student> all() {
        return a;
    }

    @GetMapping("one/{id}")
    public Student one(@PathVariable int id) {
        Student ss = new Student();
        for (Student student : a) {
            if (student.id == id) {
                ss = student;
            }
        }
        return ss;
    }
}
```

```
@PostMapping("insert")
public ArrayList<Student> insert(@RequestBody Student student) {
    a.add(student);
    return a;
}
```

```
@PostMapping("b/{id}/{name}")
public ArrayList<Student> insertAPI(@PathVariable int id, @PathVariable
String name) {
    a.add(new Student(id, name));
    return a;
}
```

```
@PostMapping("insertall")
public ArrayList<Student> insertAll(@RequestBody List<Student> student)
{
    a.addAll(student);
    return a;
}
```



```
@PutMapping("update")
public ArrayList<Student> update(@RequestBody Student student) {
    Student ss = new Student();
    for (Student stud : a) {
        if (stud.id == student.id) {
            ss = stud;
        }
    }
    ss.setld(student.id);
    ss.setName(student.name);
    return a;
}
```

```
@PatchMapping("partialUpdate/{id}/{name}")
public ArrayList<Student> partialUpdate(@PathVariable int id,
    @PathVariable String name) {
    Student ss = new Student();
    for (Student stud : a) {
        if (stud.id == id) {
            ss = stud;
        }
    }
    ss.setld(id);
    ss.setName(name);
    return a;
}
```

```
@DeleteMapping("delete/{id}")
public ArrayList<Student> delete(@PathVariable int id) {
    Student ss = new Student();
    for (Student student : a) {
        if (student.id == id) {
            ss = student;
        }
    }
    a.remove(ss);
    return a;
}
```

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