Sample REST Demo application

Step-03

Main Method

```
package com.suji.sample;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class SampleDemoFirstApplication {
    public static void main(String[] args) {
        SpringApplication.run(SampleDemoFirstApplication.class, args);
    }
}
```

Employee Model

```
package com.suji.sample.model;

public class Employee {
    private int id;
    private String name;
    private String dept;
    private int salary;

public Employee() {
    }

    public Employee(int id, String name, String dept, int salary) {
        this.id = id;
        this.name = name;
        this.dept = dept;
        this.salary = salary;
    }

// Setters and Getters
}
```

TestControllerMedium.java

```
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
```

```
\textbf{import} \ \text{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;
import com.suji.sample.model.Employee;
@RestController
@RequestMapping("/medium")
public class TestControllerMedium {
    // _____GET MAPPING___
    // GET Method is used for READ/GET data
    // Say Hi
    @GetMapping("/hi")
    public String sayHi() {
        return "Hello world";
    }
    // Add two numbers
    @GetMapping("/add/{num1}/{num2}")
    public String add(@PathVariable(required = true, name = "num1") int a,
            @PathVariable(required = true, name = "num2") int b) {
        return "Sum is: " + (a + b);
    }
    // Reverse String
    @GetMapping("/reverse/{inputStr}")
    \textbf{public} \  \, \textbf{String} \  \, \textbf{add} ( @ \textbf{PathVariable} ( \textbf{required = true}, \ \textbf{name = "inputStr"}) \  \, \textbf{String str}) \  \, \{ \\
        return "Reverse String is: " + new StringBuilder(str).reverse();
    }
    // Get Fake employee
    @GetMapping("/fake/{empId}")
    public Employee getFake(@PathVariable(required = true, name = "empId") int id) {
        return new Employee(id, "FAke name", "Fake Dept", 10000);
    }
              ___POST MAPPING___
    // POST Method is used for CREATE/SAVE data
    // Double Employee salary and id
    @PostMapping("/double")
    public Employee doubleIt(@RequestBody(required = true) Employee e) {
        return new Employee(e.getId() * 2, e.getName(), e.getDept(), e.getSalary() *
2);
```

```
// Employee Details in String
   @PostMapping("/instr")
   public String details(@RequestBody(required = true) Employee e) {
       return e.toString();
   }
   // _____PUT MAPPING____//
   // PUT Method is used for UPDATE data
   @PutMapping("/update/{empId}")
   public Employee updateEmployee(@PathVariable(required = true, name = "empId") int
id,
           @RequestBody(required = true) Employee e) {
       Employee newEmp = new Employee(id, "Updated Name", "Updated Dept", 10000);
       return newEmp;
   }
   // _____DELETE MAPPING____//
   // DELETE Method is used for DELETE data
   @DeleteMapping("/delete/{empId}")
   public String deleteEmployeeById(@PathVariable(required = true, name = "empId")
int id) {
       return "Employee with id '" + id + "' has been deleted";
   }
}
```

application.properties

```
# Server Port
server.port=8080

# Open API Available at http://localhost:8080/api-docs/
springdoc.api-docs.path=/api-docs

# Swagger UI Available at http://localhost:8080/swagger.html
springdoc.swagger-ui.path=/swagger.html
```

pom.xml

<artifactId>spring-boot-starter-web</artifactId>
</dependency>

</dependencies>