Hands on 1

Demonstrate integration of RESTful Web Service of type GET

Step 1: Created an application through Spring Initializr and imported it in the eclipse.

Step 2: Downloaded Postman software from web to validate using postman Api.

Step 3: Created a subpackage package com.restful.handsonspringrestful.model Under which Created a class Student.java. Generated getter and setter method .

Step 4: Create another subpackage package com.restful.handsonspringrestful.controller under which create a class named StudentController.java where the necessary http method is implemented.

Step 5:In StudentController class annonate with @RestController to create rest Endpoint.Under static block created the respective object of Student class with different set of data.

Step 6: invoked a method of return type ResponseEntity

Student.java

```
package com.spring.restful.springrestfull.model;

public class Student {
	private String Id;
	private String name;

	public String getId() {
		return Id;
	}
	public void setId(String id) {
		Id = id;
	}
	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}
}
```

StudentController.java

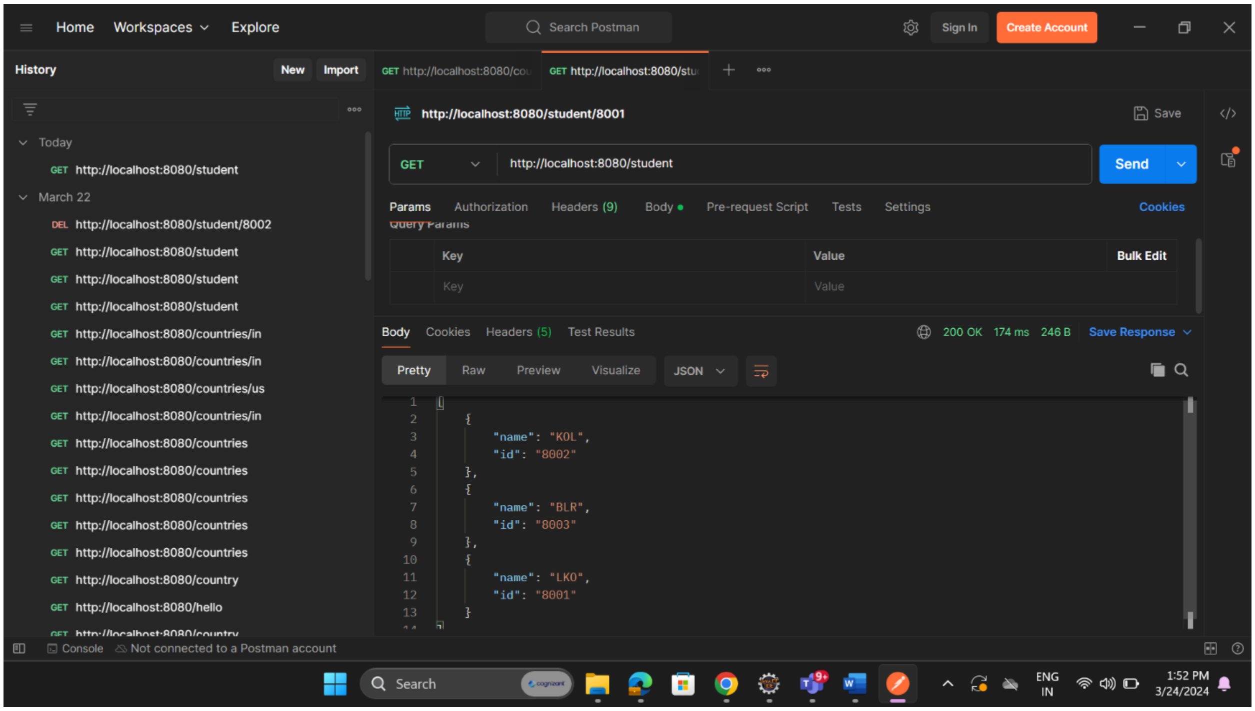
```
package com.spring.restful.springrestfull.controller;
import java.util.HashMap;
import java.util.Map;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
import com.spring.restful.springrestfull.model.Student;
@RestController
public class StudentController {
        private static Map<String ,Student>studentRecord=new HashMap<>();
        static {
                Student s1=new Student();
                s1.setId("8001");
                s1.setName("LKO");
                studentRecord.put(s1.getId(),s1);
                Student s2=new Student();
                s2.setId("8002");
                s2.setName("KOL");
                studentRecord.put(s2.getId(),s2);
                Student s3=new Student();
                s3.setId("8003");
                s3.setName("BLR");
                studentRecord.put(s3.getId(), s3);
        }
```

```
    @RequestMapping(value="/student")

    public ResponseEntity<Object>getStudent(){

        return new ResponseEntity<>(studentRecord.values(),HttpStatus.OK);

    }
```

SpringRestfullApplication.java

```
package com.spring.restful.springrestfull;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringRestfullApplication {

    public static void main(String[] args) {

        SpringApplication.run(SpringRestfullApplication.class, args);

    }

}
```

OUTPUT: GET method



History

Today

GET http://localhost:8080/student

March 22

DEL http://localhost:8080/student/8002
GET http://localhost:8080/student
GET http://localhost:8080/student
GET http://localhost:8080/student
GET http://localhost:8080/countries/in
GET http://localhost:8080/countries/in
GET http://localhost:8080/countries/us
GET http://localhost:8080/countries/in
GET http://localhost:8080/countries
GET http://localhost:8080/countries
GET http://localhost:8080/countries
GET http://localhost:8080/countries
GET http://localhost:8080/countries
GET http://localhost:8080/country
GET http://localhost:8080/hello
GET http://localhost:8080/country

http://localhost:8080/student/8001

GET http://localhost:8080/student

Query Params

Key	Value
Key	Value

200 OK 174 ms 246 B

```
[
    {
        "name": "KOL",
        "id": "8002"
    },
    {
        "name": "BLR",
        "id": "8003"
    },
    {
        "name": "LKO",
        "id": "8001"
    }
```