Date: 13/03/2021 Spring boot 9AM Mr. RAGHU

POSTMAN Tool:

https://www.postman.com/downloads/

*) ResponseEntity<T>:

Entity(Final Output) Placed inide Response.
This is used as Controller#Method ReturnType
T = Type can be String/Class/Collection

- => If return type is String , then Http Response is 'Text Format' (Content-Type : text/plain).
- => If return type is non-String , then Http Response is 'JSON' (Content-Type : application/json).
- => *** Latest Spring Boot version 2.x supports only JSON Format. XML Supports default is not present, but we can add additional dependency to enable this.
- Q) Which is preferred for Object Format in Webservices JSON or XML? A) JSON.
 - -> Representation is easy { key:val }
 - -> Need less memory (compared to XML)
 - -> Execution/Trasnfer is very fast.
 - -> XML is more complex in design if data gets increased

ex:

XML:

<employee>
 <eid>10</eid>
 <ename>A</ename>
</employee>

JSON:

{eid:10,ename:"A"}

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MEDIA TYPE ANNOTATIONS

ReST has provided two mediatype annotations.

- a. @RequestBody (Input MediaType)
- b. @ResponseBody (Output MediaType)
- a. @RequestBody : It reads Http Request first.

 Checks Header Param 'Content-Type'

 If Type is non-string(not text/plain)

 ex: application/json , application/xml

 then data/Content is converted into Object Format,
 given to Controller#method Param.
- => Spring MVC @ModelAttribute (FORM DATA) === Spring ReST @RequestBody

and give it to Http Response Body Section and update Content-Type Header Param even.

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=> Spring MVC Model === Spring ReST @ResponseBody
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*) @ResponseBody Annotation is optional to apply over method.
 Bcoz internally @RestController is appling @ResponseBody Annotation.
 It works only for non-String.
*) JSONView chrome Extesion.
*) We can directly use String/Class/Collection as ReturnType
  ResponseEntity is optional, but recomanded in realtime.
-----code-----
Name: SpringBoot2OutputMediaType
Dep : Spring web, Lombok, Devtools
Model:
package in.nareshit.raghu.model;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
@Data
@NoArgsConstructor
@AllArgsConstructor
public class Employee {
       private Integer eid;
       private String ename;
       private Double esal;
}
RestController
package in.nareshit.raghu.rest;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
import in.nareshit.raghu.model.Employee;
@RestController
public class EmployeeRestController {
       @GetMapping("/msg")
       public ResponseEntity<String> showDataA() {
               String body = "Welcome to Simple data";
               return new ResponseEntity<String>(body,
HttpStatus.OK);
       }
       @GetMapping("/obj")
       public ResponseEntity<Employee> showDataB() {
```

Employee body = new Employee (106, "SYED", 600.0);