Assignment No 10

and RESTful Web Services

1. Write a program to create a simple Spring Boot application that prints a message.
2. Write a program to demonstrate RESTful Web Services with spring boot

**Problem Statement 10.1. Write a program to create a simple Spring Boot application that prints a message.**

**Save the file, an automatic download process will start, wait till its completed. Now you are good to go and develop Spring Boot Applications.**

**Problem Statement 1 :** Write a program to create a simple Spring Boot application that prints a message.

Right click on src -> new -> class -> class name-

**Problem Statement 1 :** Write a program to create a simple Spring Boot application that prints a message.

**Solution : HelloWorldController.java** package com.example.demo;

import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.RestController;

@RestController

public class HelloWorldController { @RequestMapping("/") public String hello()

{

return " Hello World...!";

}

}

**Main file will create automatically**

package com.example.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class Restful11Application {

public static void main(String[] args) { SpringApplication.run(Restful11Application.class, args);

}

}

**Output :**

Go to Project-> src/main/java -> com.example.restfulex -> Right click on it then Run as -> Java Application

**OUTPUT-**

**Problem Statement 10.2 :** Write a program to demonstrate RESTful Web Services with spring boot

Solution :

**Step 1 :**

* 1. **:** Open Eclipse. Go To File > New > Other.

**Problem Statement 1 :** Write a program to create a simple Spring Boot application that prints a message

Solution :

**HelloWorldBean.java**

package com.example.restfulex;

public class HelloWorldBean { public String message;

public HelloWorldBean(String message)

{

this.message=message;

}

public String getMessage()

{

return message;

}

public void setMessage(String message)

{

this.message = message;

}

@Override

//generate toString public String toString()

{

return String.*format* ("HelloWorldBean [message=%s]", message);

}

}

**Right click on src -> new -> class -> class name-HelloWorldController HelloWorldController.java**

package com.example.restfulex;

import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.RestController;

@RestController

public class HelloWorldController { @GetMapping(path="/hello-world") public String helloWorld()

{

return "Hello World";

}

@GetMapping(path="/hello-world-bean") public HelloWorldBean helloWorldBean()

{

return new HelloWorldBean("Hello World"); //constructor of HelloWorldBean

}

}

RestfulEx12Application**.java** package com.example.restfulex;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class RestfulEx12Application {

public static void main(String[] args) { SpringApplication.run(RestfulEx12Application.class, args);

}

}

Go to Project-> src/main/java -> com.example.restfulex -> Right click on it then Run as -> Java Application

**OUTPUT-**

Testing API with PostMan.

EndPoint : <http://localhost:8080/hello-world-bean>

**Open Poastman -> Enter url**

After pest url-> click on send button.