

## 1. Simple SpringBoot Application that displays “ Hello, Welcome to the world of SpringBoot Applications”.

### HelloWorldApplication.java

```
package com.example.helloworld;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
public class HelloWorldApplication {

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

### HelloWorldController.java

```
package com.example.helloworld;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class HelloWorldController {

    // This method will handle GET requests to "/hello"
    @GetMapping("/hello")
    public String sayHello() {
        return "Hello, Welcome to the world of SpringBoot Applications";
    }
}
```

### pom.xml

```
<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
```

```
        <artifactId>spring-boot-starter-test</artifactId>

        <scope>test</scope>

    </dependency>

</dependencies>
```

## 2. SpringBoot Rest API Application

### SpringBootRestApiApplication.java

```
package com.example.demo;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class SpringBootRestApiApplication {

    public static void main(String[] args) {

        SpringApplication.run(SpringBootRestApiApplication.class, args);

    }

}
```

### MessageController.java

```
package com.example.demo.controller;

import java.util.ArrayList;
import java.util.List;

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
@RequestMapping("/api")
```

```

public class MessageController {

    // List to store messages in memory
    private List<String> messages = new ArrayList<>();

    // GET request to return all messages
    @GetMapping("/messages")
    public List<String> getMessages() {
        return messages;
    }

    // POST request to add a new message
    @PostMapping("/messages")
    public String addMessage(@RequestBody String message) {
        messages.add(message);
        return "Message added successfully!";
    }
}

```

#### **pom.xml**

```

<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
</dependencies>

```