# Sample REST Demo application

## Step-04

#### 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);
    }
}
```

#### Simple Interest Controller

```
package com.suji.sample.controller;
\textbf{import} \ \text{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;
import com.suji.sample.model.SimpleInterestRequest;
import com.suji.sample.model.SimpleInterestResponse;
@RestController
@RequestMapping("/simple")
public class SimpleInterestController {
    @PostMapping("/interest")
    public SimpleInterestResponse getInterest(@RequestBody SimpleInterestRequest sir)
{
        int interest = sir.getPrincipal() * sir.getTime() * sir.getRate() /100;
        int total = interest + sir.getPrincipal();
        return new SimpleInterestResponse(interest, total);
    }
}
```

#### **SimpleInterestRequest**

```
public class SimpleInterestRequest {

   private int principal;
   private int time;
   private int rate;

   public SimpleInterestRequest() {
    }

   public SimpleInterestRequest(int principal, int time, int rate) {
        this.principal = principal;
        this.time = time;
        this.rate = rate;
   }
   // Getters and Setter
}
```

#### **Simple Interest Response**

```
public class SimpleInterestResponse {
    private int interest;
    private int total;

public SimpleInterestResponse() {
        super();
    }

public SimpleInterestResponse(int interest, int total) {
        this.interest = interest;
        this.total = total;
    }
    // Getters and Setter
}
```

### 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
```

#### Input

```
{
  "principal": 600000,
  "time": 12,
  "rate": 4
}
```

## **Output**

```
{
    "interest": 288000,
    "total": 888000
}
```