Phase-3 Practice Project: Assisted Practice

```
2. Write a program to demonstrate automation of GET request and response.
package phase3_Lesson_end_project;
import org.testng.annotations.Test;
import io.restassured.RestAssured;
public class GetDemo {
       @Test
       public void VerifyMessage()
 RestAssured
 .given()
 .contentType("application/json")
 .header("Authorization", "Bearer
44292b35ce5612b1c16008ee8c47e256e5de9e0caeb8cdd653d167f9ca93a800 ")
 .when()
 .get("https://regres.in/api/users/2")
 .then()
 .statusCode(200)
 .log().all();
 }
}
3. Write a program to demonstrate automation of POST request and response.
package rest_assured_demo_testscript;
import java.util.HashMap;
import org.testng.annotations. BeforeMethod;
import org.testng.annotations.Test;
import io.restassured. RestAssured;
```

```
public class POSTdemo {
       HashMap<String, String> map = new HashMap<String, String>();
       @BeforeMethod
       public void createPayLoad() {
               map.put("name", "morpheus");
               map.put("job", "painter");
               RestAssured.baseURI = "https://reqres.in/";
               RestAssured.basePath = "/api/users";
       }
       @Test
       public void createResource() {
               RestAssured
               .given()
               .contentType("application/json")
               .body (map)
               .when()
               .post()
               .then()
               .statusCode (201)
               .log().all();
       }
```

}

4.Write a program to send XML payload in REST assured, parse XML response in REST assured, parse JSON response in REST assured, and explore native logging of REST assured.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CapitalCity xmlns="http://www.oorsprong.org/websamples.countryinfo">
      <sCountryISOCode>US</sCountryISOCode>
   </CapitalCity>
  </soap:Body>
</soap:Envelope>
package rest assured demo testscript;
      import org.testng.annotations. Test;
      import io.restassured. RestAssured;
      public class GETdemo {
      @Test
      public void getServerResponse() {
      RestAssured
      .when()
      .get("https://restcountries.com/v3.1/all")
      .then()
      .assertThat()
      .statusCode (200)
      .log().all();
      }
```

```
5. Write a program to demonstrate GET, POST, XML, and JSON in REST Assured.
package rest_assured_demo_testscript;
import org.testng.annotations.Test;
import io.restassured.RestAssured;
public class GetBearerTokenDemo {
        @Test
       public void VerifyMessage() {
 RestAssured
 .given()
 .contentType("application/json")
 .header("Authorization", "Bearer
44292b35ce5612b1c16008ee8c47e256e5de9e0caeb8cdd653d167f9ca93a800 ")
 .when()
 .get("https://gorest.co.in/public/v2/users/4589310")
 .then()
 .statusCode(200)
 .log().all();
 }
}
package rest_assured_demo_testscript;
import java.util.HashMap;
import org.testng.annotations. BeforeMethod;
import org.testng.annotations.Test;
import io.restassured. RestAssured;
public class POSTdemo {
       HashMap<String, String> map = new HashMap<String, String>();
        @BeforeMethod
       public void createPayLoad() {
               map.put("name", "morpheus");
               map.put("job", "painter");
               RestAssured.baseURI = "https://reqres.in/";
```

```
RestAssured.basePath = "/api/users";
        }
        @Test
        public void createResource() {
               RestAssured
               .given()
               .contentType("application/json")
               .body (map)
               .when()
               .post()
               .then()
               .statusCode (201)
               .log().all();
       }
}
6. Write a program to demonstrate OAuth authorization in REST API using REST assured.
package rest_assured_demo_testscript;
import org.testng.annotations.Test;
import io.restassured.RestAssured;
public class ApiKeyDemo {
        @Test
public void GetwheatherInfo(){
        RestAssured
        .given()
        .param("q","chennai")
        .param("appid","2f15b0744ac5f3aa170bf81ec4803102")
        .when()
        .get("https://api.openweathermap.org/data/2.5/weather")
        .then()
        .statusCode(200)
        .log().all();
}
```

```
}
```

```
8. Write a program to configure Log4j in Eclipse Maven project.
package phase3_Lesson_end_project;
import org.apache.log4j.Level;
import org.apache.log4j.Logger;
import org.apache.log4j.PropertyConfigurator;
import org.testng.annotations.BeforeClass;
import io.restassured.response.Response;
import io.restassured.specification.RequestSpecification;
public class TestBase {
        public static RequestSpecification httpRequest;
        public static Response response;
        public Logger logger;
        @BeforeClass
        public void setUp() {
                logger = Logger.getLogger("LogDemo");
                PropertyConfigurator.configure("log4j.properties");
                logger.setLevel(Level.DEBUG);
}
}
```

```
9. Write a program to generate logs on Eclipse Console using Log4j.
package rest_assured_demo_testscript;
import static org.junit.Assert.assertThat;
import java.util.HashMap;
import java.util.UUID;
import org.apache.log4j.Logger;
import org.testng.Assert;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import io.restassured.RestAssured;
import io.restassured.path.json.JsonPath;
import io.restassured.response.Response;
import static org.hamcrest.Matchers.is;
public class Create_Delete_update_resource_Demo extends TestBase {
       HashMap<String, String> map = new HashMap<String, String>();
       UUID uuid= UUID.randomUUID();
       int id;
       Response response;
       JsonPath jsonPath;
       @Test(priority=0)
       public void createPayload() {
       map.put("name", "Masha");
       map.put("email", uuid+"@gmail.com");
       map.put("gender", "male");
       map.put("status", "Active");
       RestAssured.baseURI = "https://gorest.co.in";
       RestAssured.basePath = "public/v2/users";
       logger.info("Payload created");
       }
```

```
@Test(priority=1)
        public void createResource() {
                response =RestAssured
        .given()
        .contentType("application/json")
        .body(map)
        .header("Authorization", "Bearer
77bf8479c2dcb452437e808e06b3bb45fe398da27c56ce2c337598237f64cc0f")
       .when()
        .post()
       .then()
       .log().all()
        .extract().response();
       logger.info("Resource Created Successfully");
        jsonPath = response.jsonPath();
       id =jsonPath.get("id");
       System.out.println(id);
       }
       @Test(priority=2)
       public void verifyResource() {
       System.out.println("Id ]= "+id);
       RestAssured
.given()
.contentType("application/json")
.body(map)
.header("Authorization", "Bearer
77bf8479c2dcb452437e808e06b3bb45fe398da27c56ce2c337598237f64cc0f")
.when()
        .get("https://gorest.co.in/public/v2/users/"+id)
       .then()
       .statusCode(200)
  .log().all();
```

```
Assert.assertTrue(jsonPath.get("name").equals("Masha"));
@Test(priority=3)
public void updateResource() {
       map.put("name", "Mashaa");
       map.put("email", uuid+"@gmail.com");
       map.put("gender", "male");
       map.put("status", "Active");
       RestAssured.baseURI = "https://gorest.co.in";
       RestAssured.basePath = "public/v2/users/"+id;
       RestAssured
       .given()
       .contentType("application/json")
       .header("Authorization", "Bearer
77bf8479c2dcb452437e808e06b3bb45fe398da27c56ce2c337598237f64cc0f")
       .body(map)
       .when()
       .put()
       .then()
       .statusCode(200)
          .log().all()
       .assertThat()
               .body("name", is("Mashaa"));
               }
@Test(priority=4)
public void deleteResource() {
       RestAssured.baseURI = "https://gorest.co.in";
       RestAssured.basePath = "public/v2/users/"+id;
       RestAssured
       .given()
```

```
.contentType("application/json")
.header("Authorization", "Bearer
77bf8479c2dcb452437e808e06b3bb45fe398da27c56ce2c337598237f64cc0f")
.when()
.delete()
.then()
.statusCode(204);
}}
```