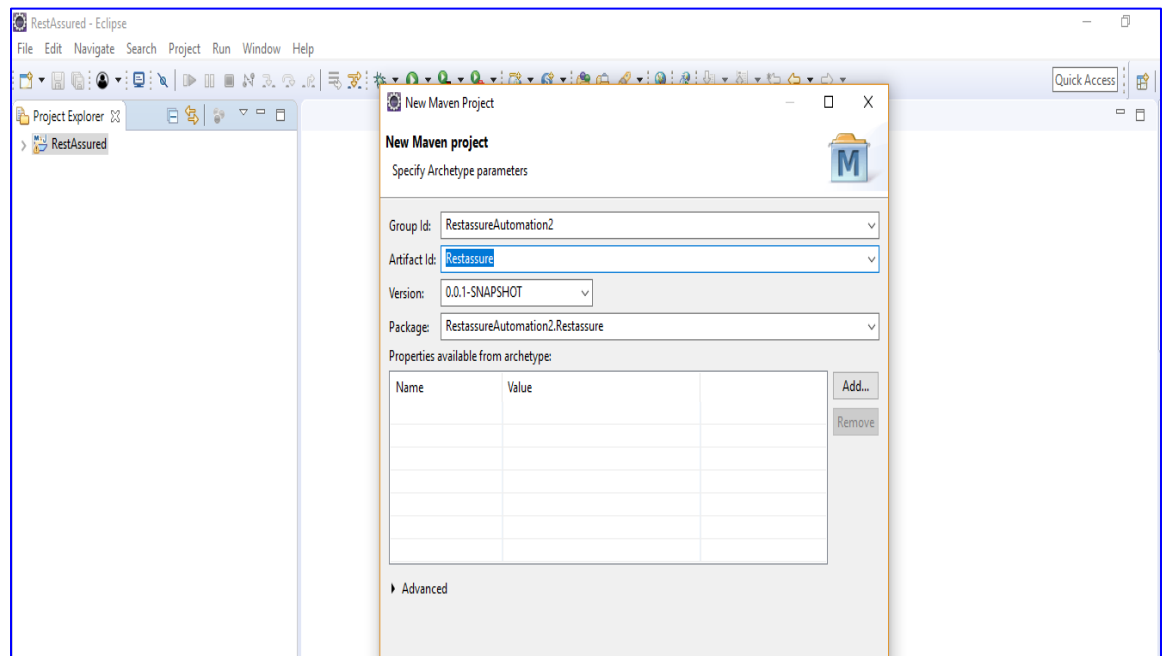
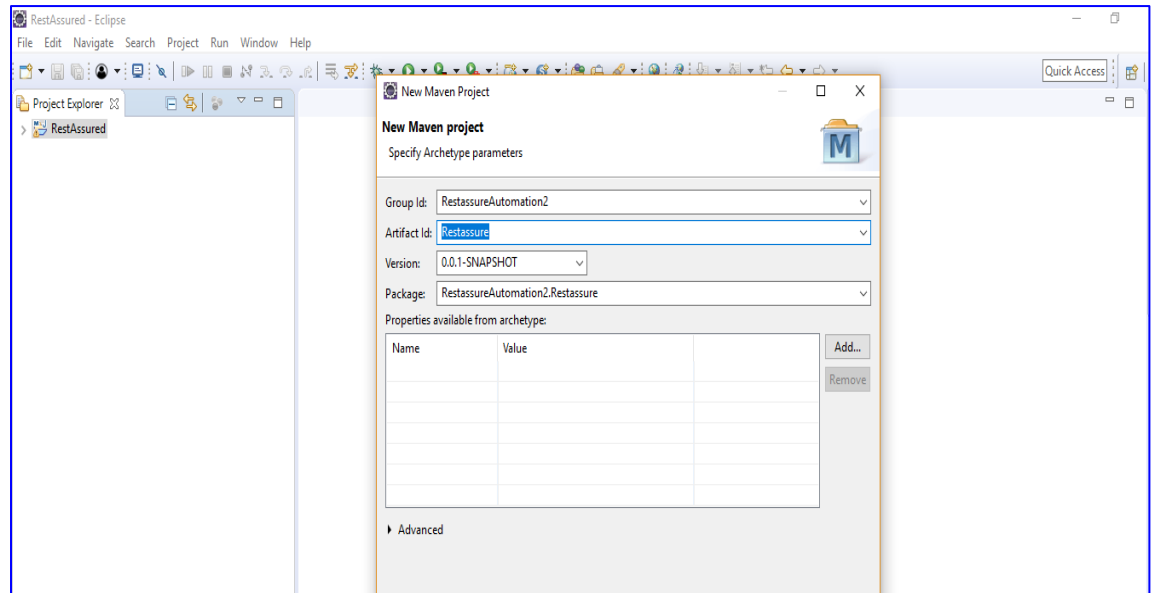
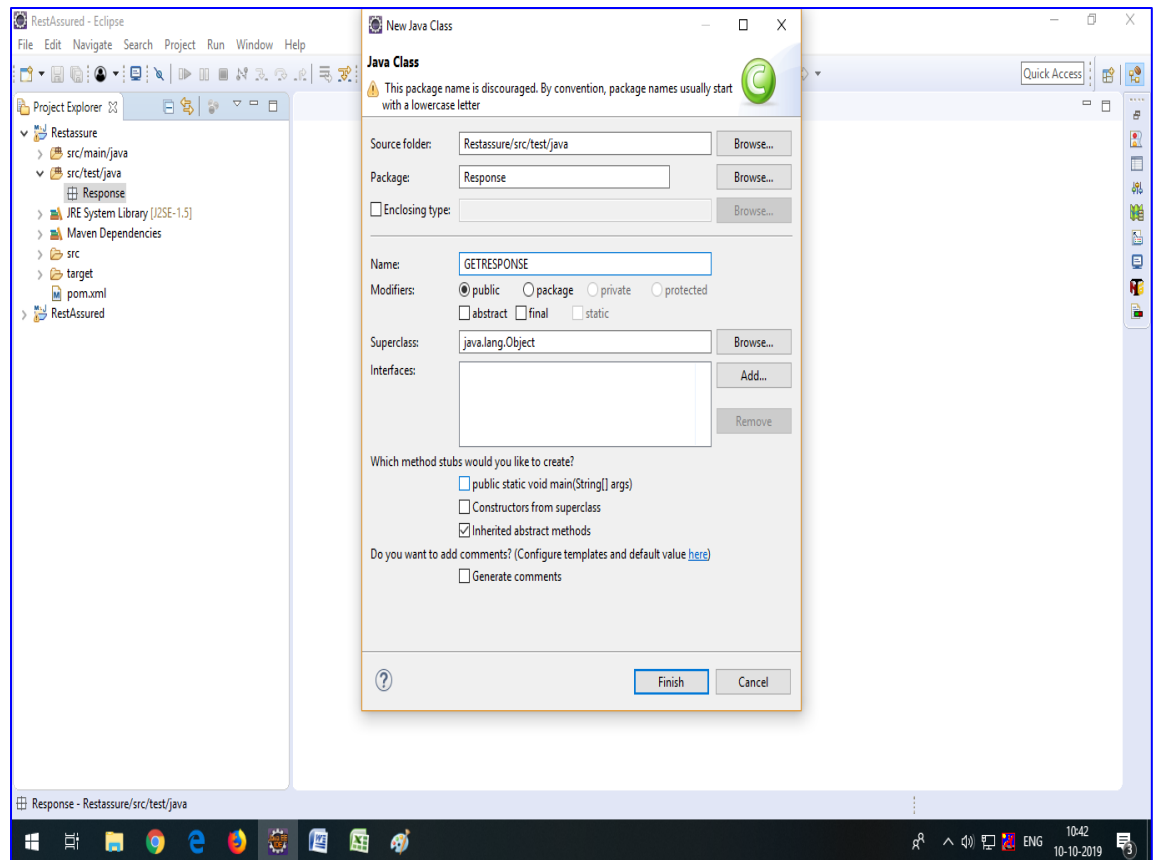


PHASE-3 ASSISTED PRACTICE PROJECT

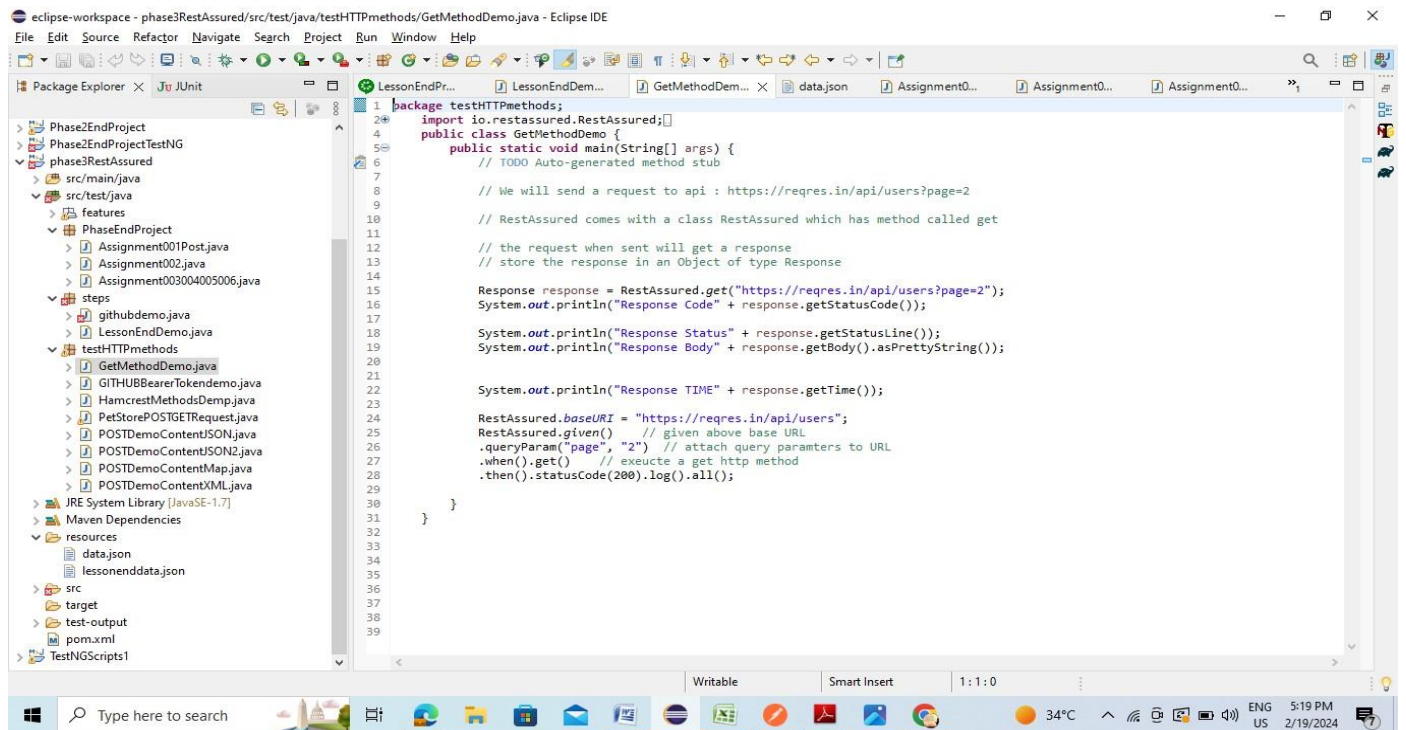
EMP ID: 2587325
NAME: HIRANMAI

1) Set Up or Configure REST Assured.

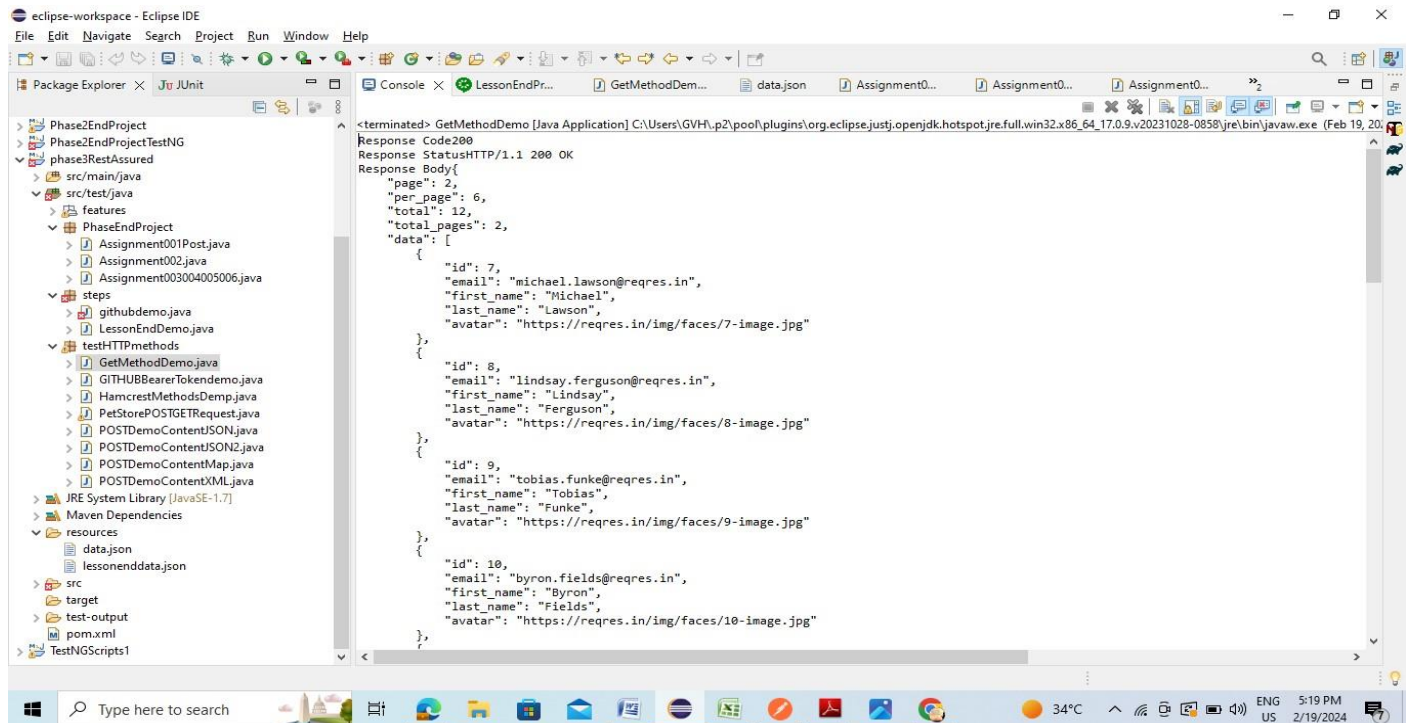




2) GET Request and Response Automation.

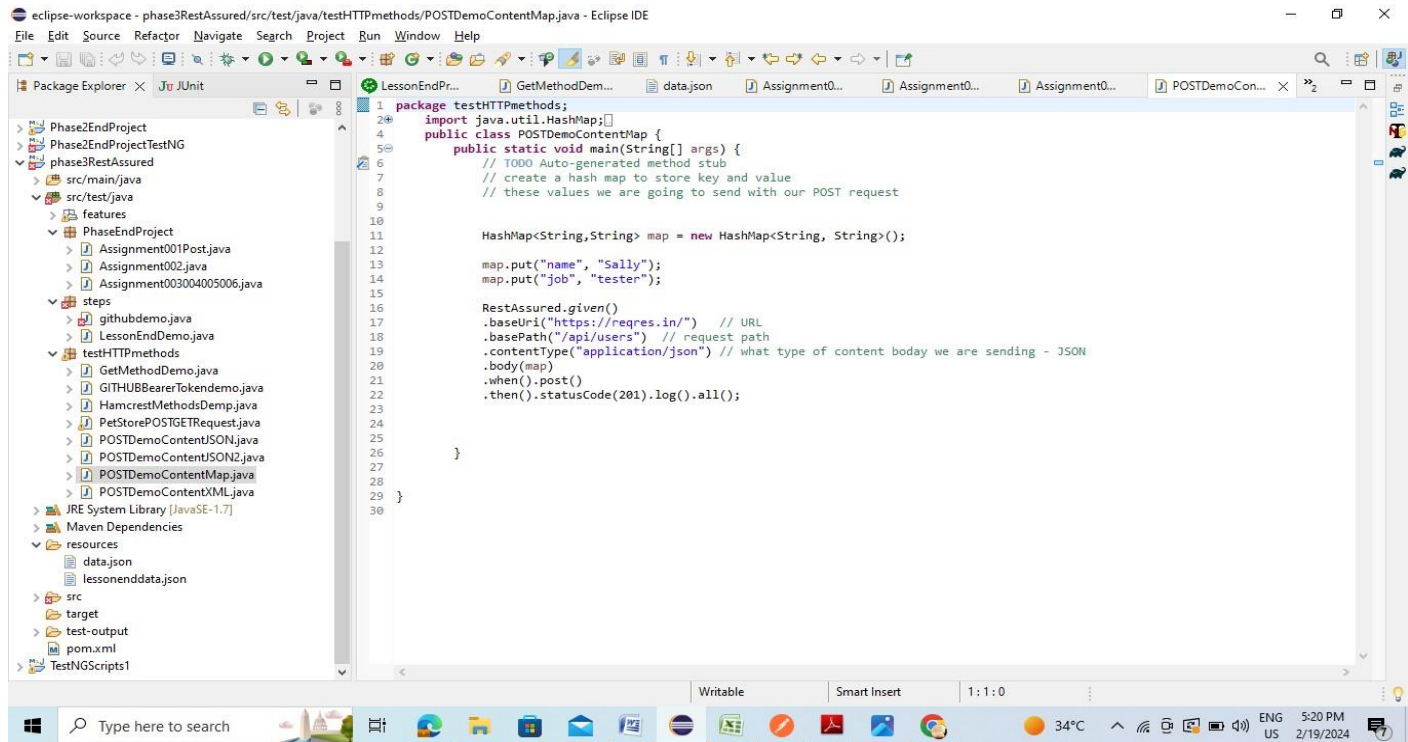


```
1 package testHTTPMethods;
2 import io.restassured.RestAssured;
3
4 public class GetMethodDemo {
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7
8         // We will send a request to api : https://reqres.in/api/users?page=2
9
10        // RestAssured comes with a class RestAssured which has method called get
11
12        // the request when sent will get a response
13        // store the response in an Object of type Response
14
15        Response response = RestAssured.get("https://reqres.in/api/users?page=2");
16        System.out.println("Response Code" + response.getStatusCode());
17
18        System.out.println("Response Status" + response.getStatusLine());
19        System.out.println("Response Body" + response.getBody().asPrettyString());
20
21
22        System.out.println("Response TIME" + response.getTime());
23
24        RestAssured.baseURI = "https://reqres.in/api/users";
25        RestAssured.given() // given above base URL
26            .queryParams("page", "2") // attach query parameters to URL
27            .when().get() // execute a get http method
28            .then().statusCode(200).log().all();
29    }
30 }
31
32
33
34
35
36
37
38
39
```

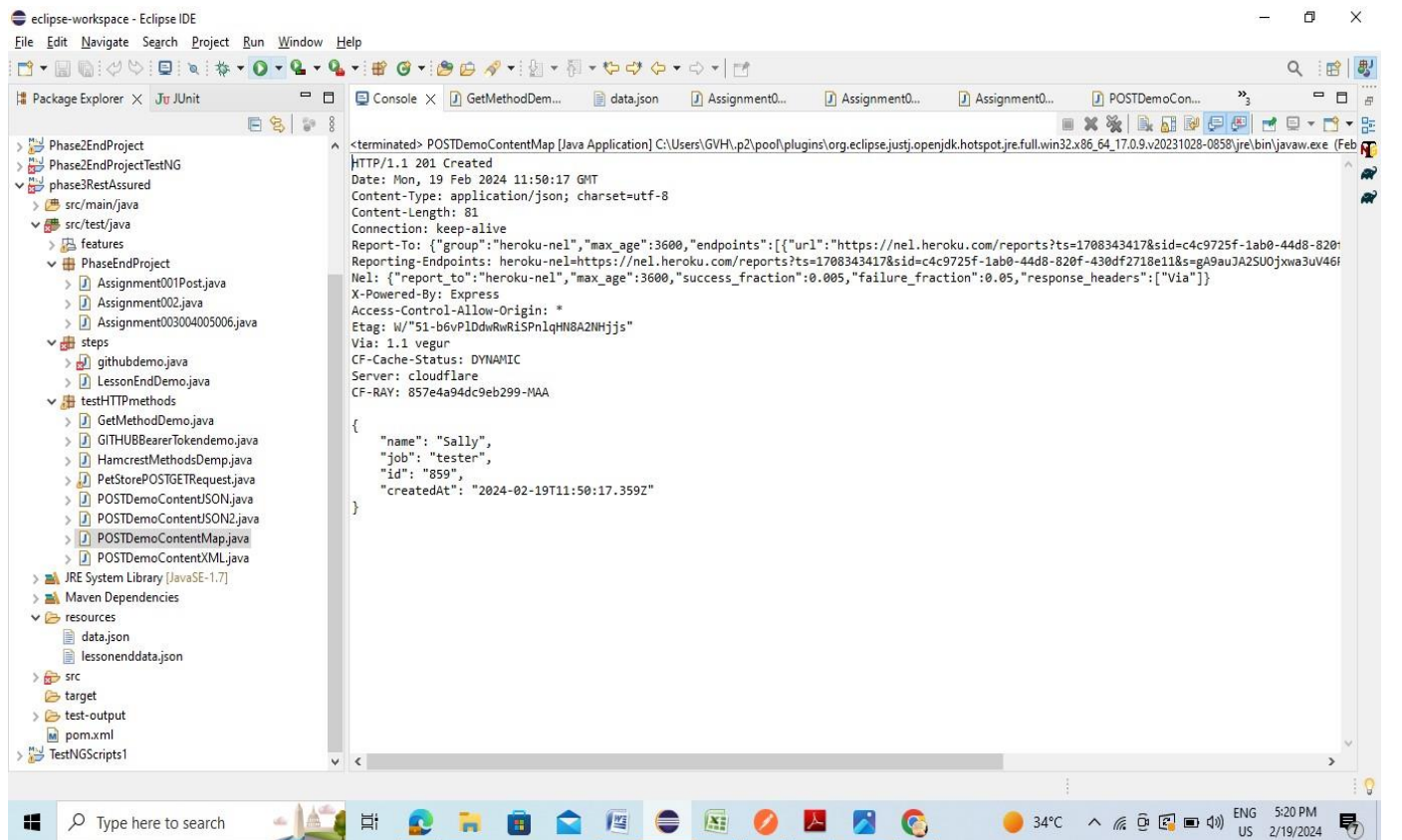


```
<terminated> GetMethodDemo [Java Application] C:\Users\GVHF\p2\pooft\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.9.v20231028-0858\jre\bin\javaw.exe (Feb 19, 2024)
Response Code200
Response StatusHTTP/1.1 200 OK
Response Body{
  "page": 2,
  "per_page": 6,
  "total": 12,
  "total_pages": 2,
  "data": [
    {
      "id": 7,
      "email": "michael.lawson@reqres.in",
      "first_name": "Michael",
      "last_name": "Lawson",
      "avatar": "https://reqres.in/img/faces/7-image.jpg"
    },
    {
      "id": 8,
      "email": "lindsay.ferguson@reqres.in",
      "first_name": "Lindsay",
      "last_name": "Ferguson",
      "avatar": "https://reqres.in/img/faces/8-image.jpg"
    },
    {
      "id": 9,
      "email": "tobias.funke@reqres.in",
      "first_name": "Tobias",
      "last_name": "Funke",
      "avatar": "https://reqres.in/img/faces/9-image.jpg"
    },
    {
      "id": 10,
      "email": "byron.fields@reqres.in",
      "first_name": "Byron",
      "last_name": "Fields",
      "avatar": "https://reqres.in/img/faces/10-image.jpg"
    }
  ]
}
```

3) POST Request and Response Automation.



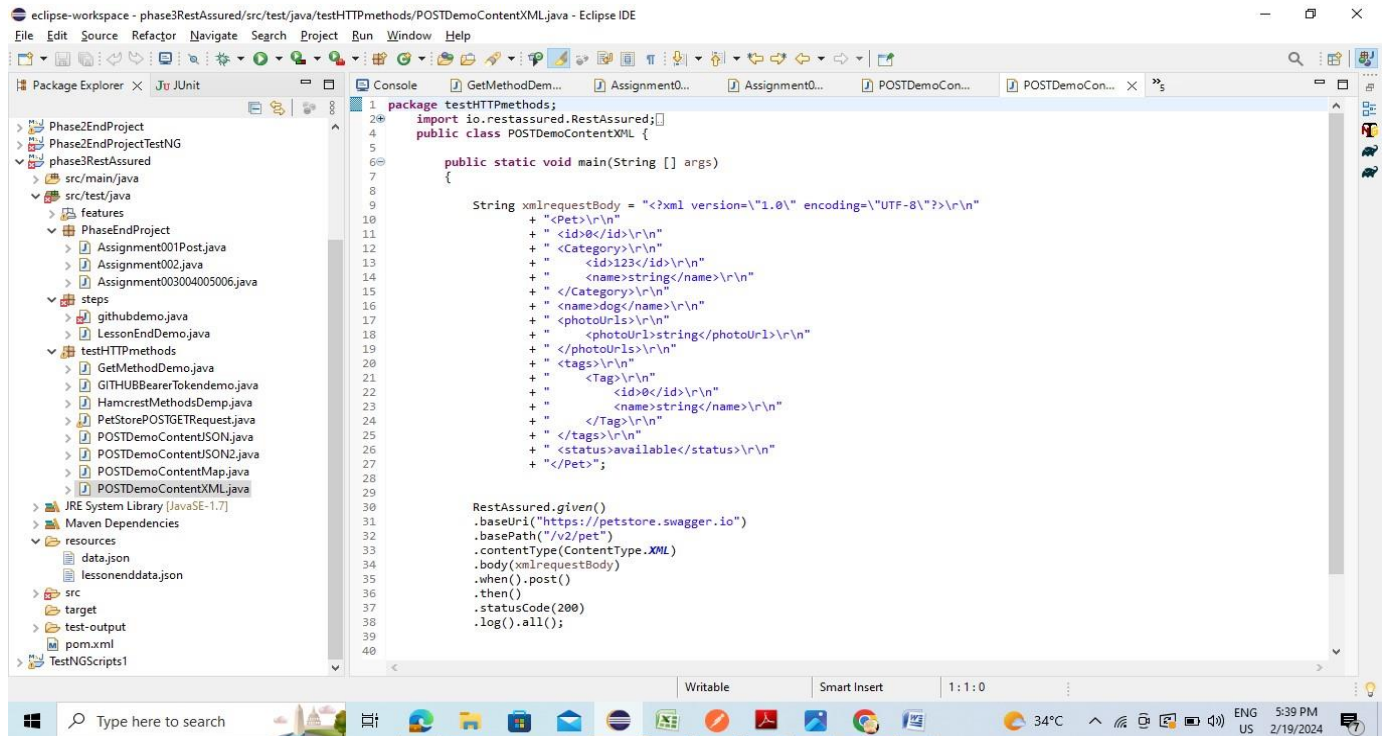
```
1 package testHTTPMethods;
2 import java.util.HashMap;
3
4 public class POSTDemoContentMap {
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         // create a hash map to store key and value
8         // these values we are going to send with our POST request
9
10
11         HashMap<String,String> map = new HashMap<String, String>();
12
13         map.put("name", "Sally");
14         map.put("job", "tester");
15
16         RestAssured.given()
17             .baseUrl("https://reqres.in/") // URL
18             .basePath("/api/users") // request path
19             .contentType("application/json") // what type of content today we are sending - JSON
20             .body(map)
21             .when().post()
22             .then().statusCode(201).log().all();
23
24     }
25 }
26
27
28
29
30 }
```



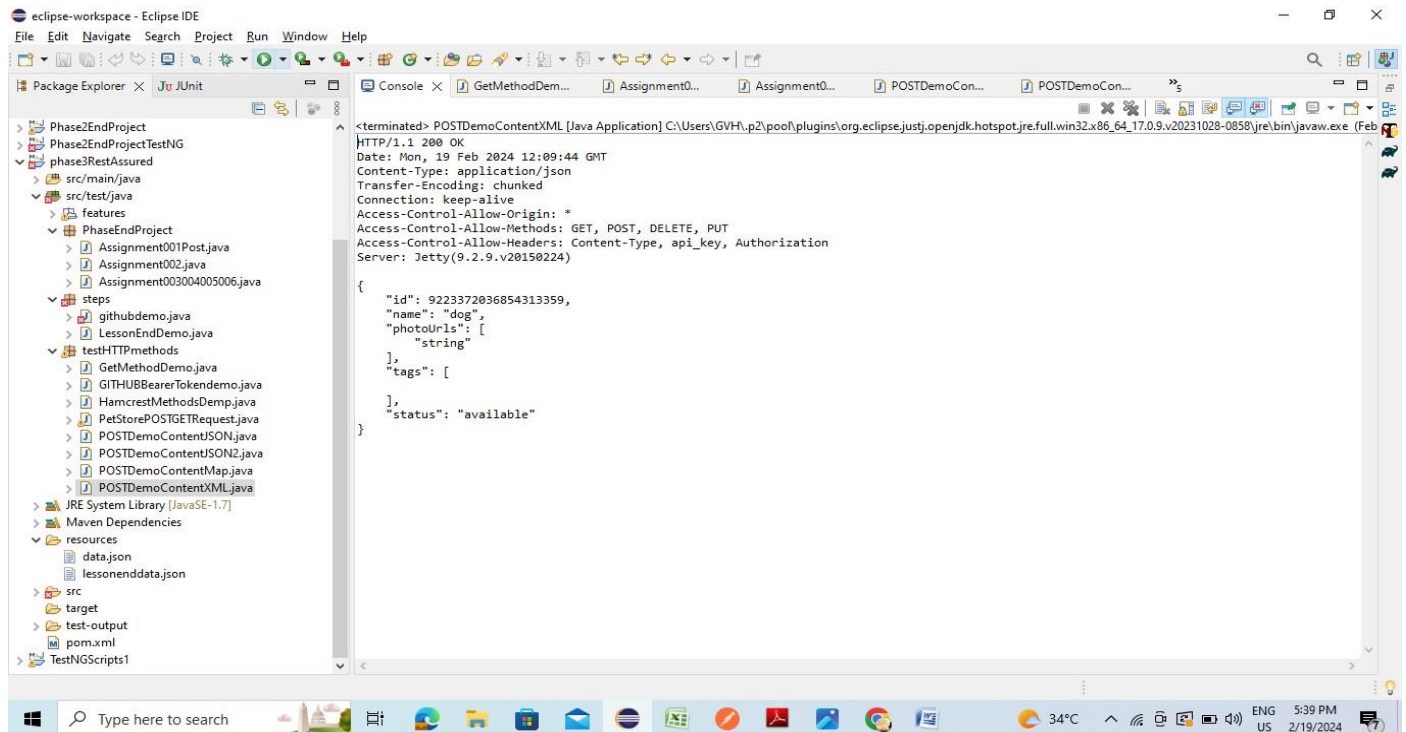
```
<terminated> POSTDemoContentMap [Java Application] C:\Users\GVH\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Feb
HTTP/1.1 201 Created
Date: Mon, 19 Feb 2024 11:50:17 GMT
Content-Type: application/json; charset=utf-8
Content-Length: 81
Connection: keep-alive
Report-To: {"group":"heroku-nel","max_age":3600,"endpoints":[{"url":"https://nel.heroku.com/reports?ts=170834317&sid=c4c9725f-1ab0-44d8-820f-430df2718e11&s=gA9auJA2SU0jxwa3uV46f"}]}
Reporting-Endpoints: heroku-nel=https://nel.heroku.com/reports?ts=170834317&sid=c4c9725f-1ab0-44d8-820f-430df2718e11&s=gA9auJA2SU0jxwa3uV46f
Nel: {"report_to":"heroku-nel","max_age":3600,"success_fraction":0.005,"failure_fraction":0.05,"response_headers":["Via"]}
X-Powered-By: Express
Access-Control-Allow-Origin: *
Etag: W/"51-b6vPLDdwRwRiSP1qHN8A2NHjjs"
Via: 1.1 vegur
CF-Cache-Status: DYNAMIC
Server: cloudflare
CF-RAY: 857e4a94dc9eb299-MAA

{
  "name": "Sally",
  "job": "tester",
  "id": "859",
  "createdAt": "2024-02-19T11:50:17.359Z"
}
```

4) Send XML Payload in REST Assured, Parse XML Response in REST Assured, Parse JSON Response in REST Assured, Explore Native Logging of REST Assured.



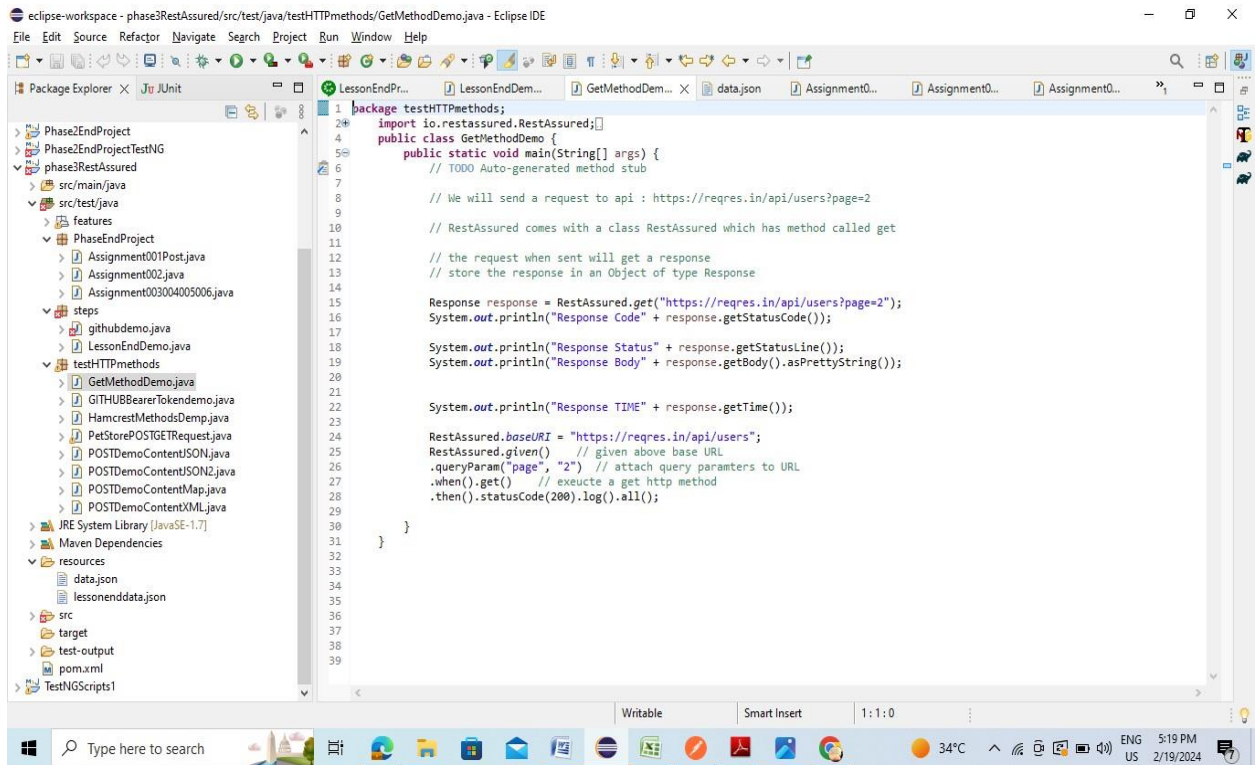
```
1 package testHTTPMethods;
2 import io.restassured.RestAssured;
3 public class POSTDemoContentXML {
4
5     public static void main(String [] args)
6     {
7
8         String xmlRequestBody = "<?xml version='1.0' encoding='UTF-8'>\r\n"
9             + "<Pet>\r\n"
10             + "  <id>0</id>\r\n"
11             + "  <Category>\r\n"
12             + "    <id>123</id>\r\n"
13             + "    <name>string</name>\r\n"
14             + "  </Category>\r\n"
15             + "  <name>dog</name>\r\n"
16             + "  <photoUrls>\r\n"
17             + "    <photoUrl>string</photoUrl>\r\n"
18             + "  </photoUrls>\r\n"
19             + "  <tags>\r\n"
20             + "    <Tag>\r\n"
21             + "      <id>0</id>\r\n"
22             + "      <name>string</name>\r\n"
23             + "    </Tag>\r\n"
24             + "  </tags>\r\n"
25             + "  <status>available</status>\r\n"
26             + "</Pet>";
27
28         RestAssured.given()
29             .baseUri("https://petstore.swagger.io")
30             .basePath("/v2/pet")
31             .contentType(ContentType.XML)
32             .body(xmlRequestBody)
33             .when().post()
34             .then()
35             .statusCode(200)
36             .log().all();
37
38     }
39
40 }
```



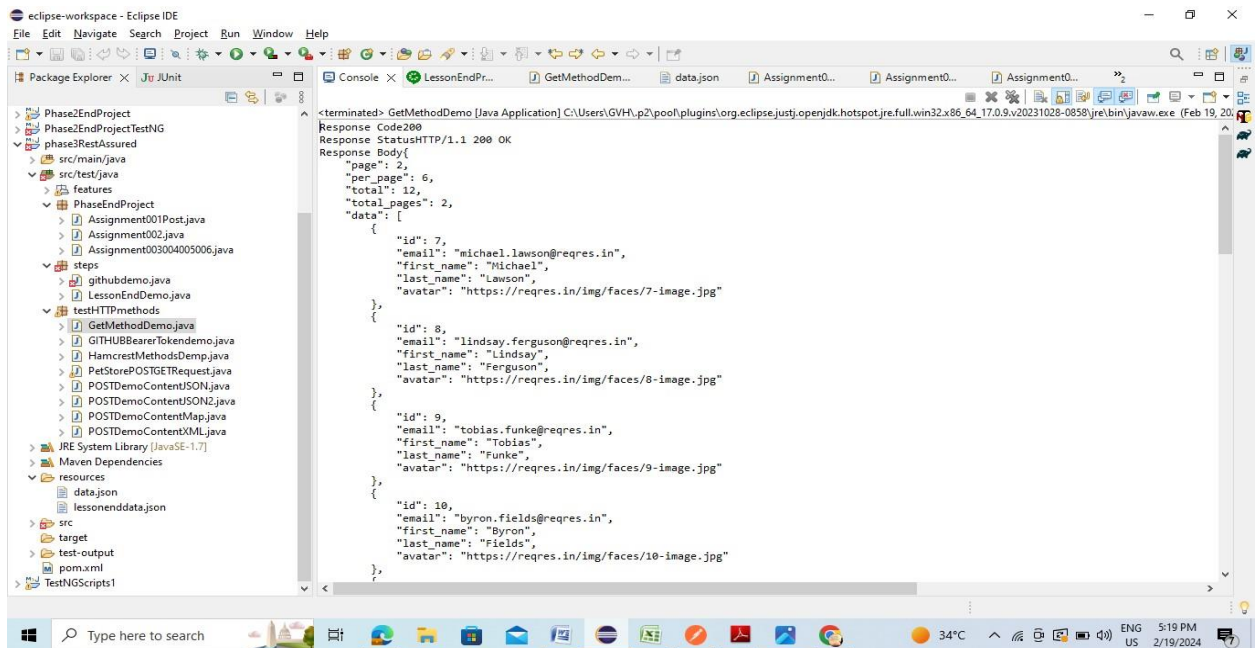
```
<terminated> POSTDemoContentXML [Java Application] C:\Users\GVH\p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Feb
HTTP/1.1 200 OK
Date: Mon, 19 Feb 2024 12:09:44 GMT
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET, POST, DELETE, PUT
Access-Control-Allow-Headers: Content-Type, api_key, Authorization
Server: Jetty(9.2.9.v20150224)

{
  "id": 9223372036854313359,
  "name": "dog",
  "photoUrls": [
    "string"
  ],
  "tags": [
  ],
  "status": "available"
}
```

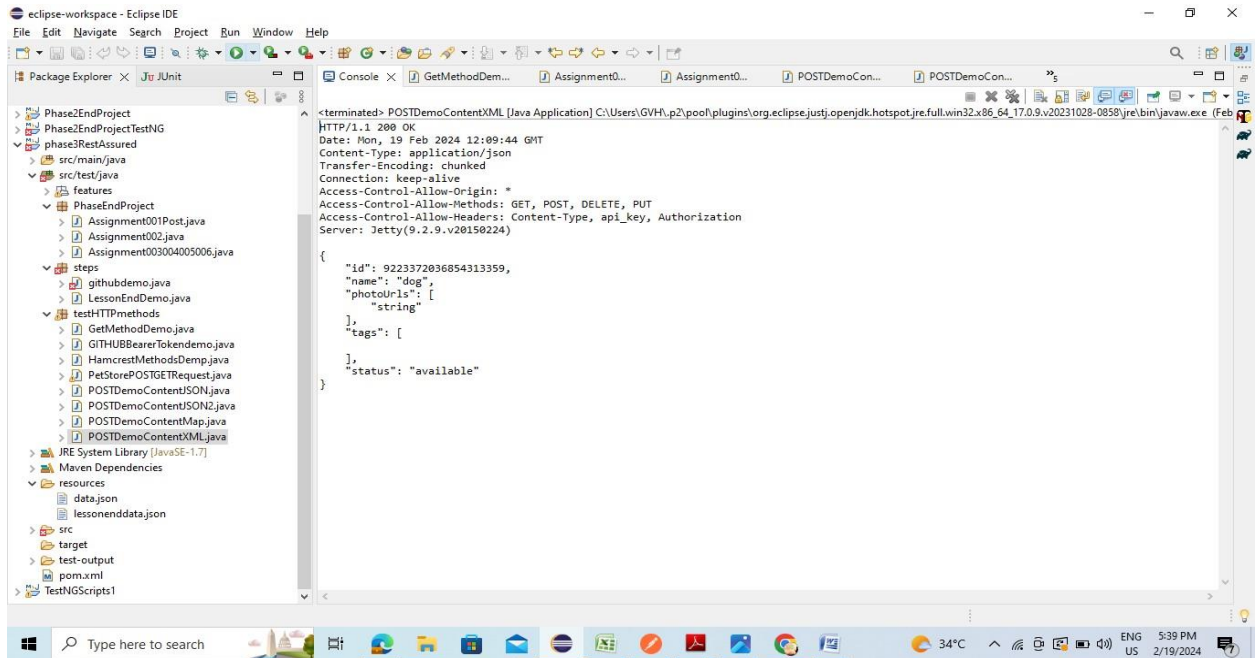
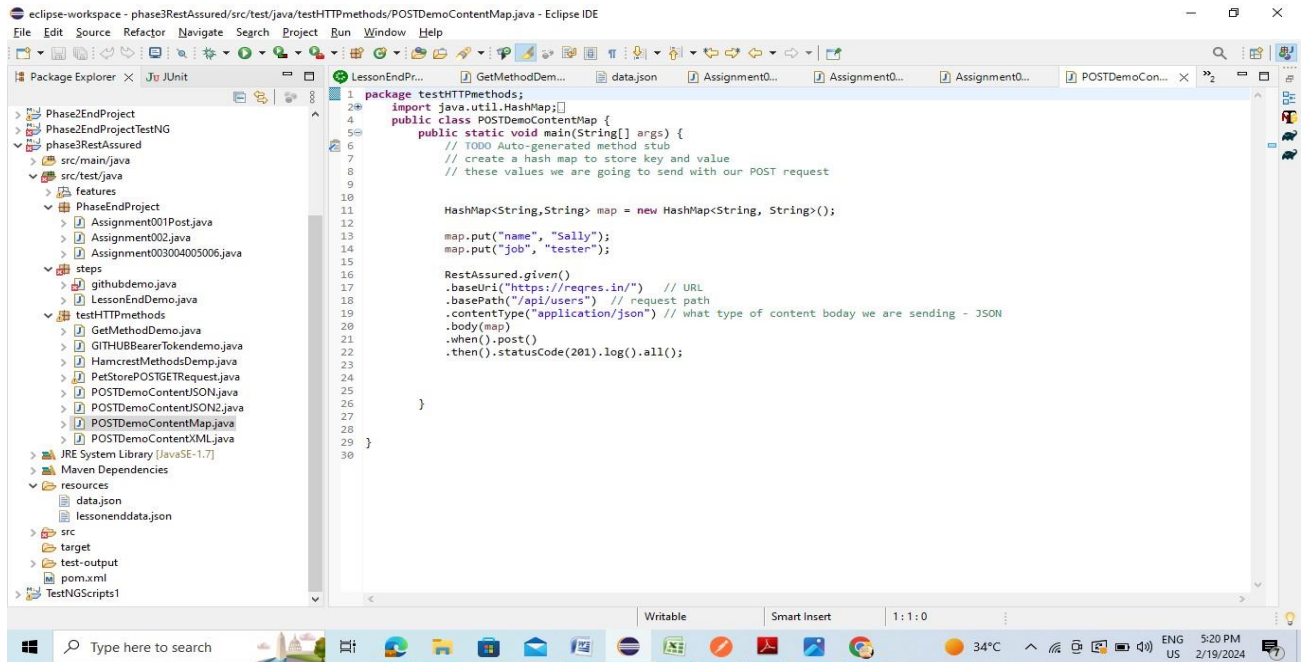

5) GET, POST, XML, and JSON.

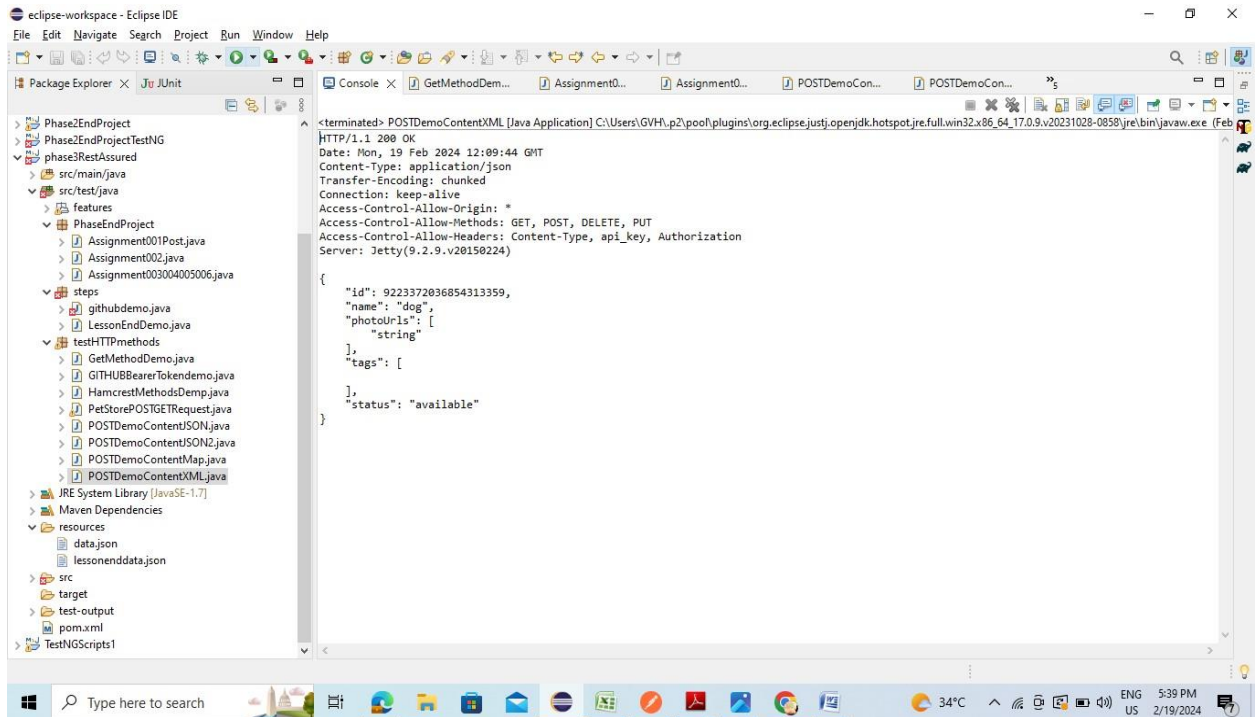
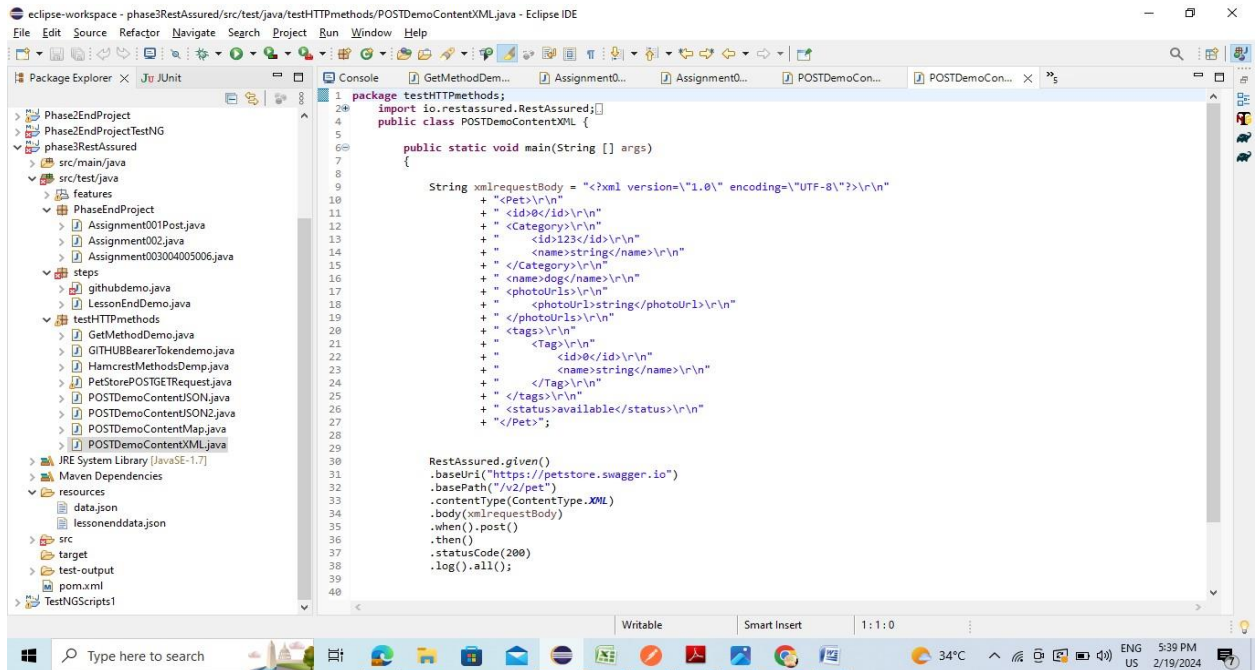


```
1 package testHTTPMethods;
2 import io.restassured.RestAssured;
3 public class GetMethodDemo {
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6
7
8         // We will send a request to api : https://reqres.in/api/users?page=2
9
10        // RestAssured comes with a class RestAssured which has method called get
11
12        // the request when sent will get a response
13        // store the response in an Object of type Response
14
15        Response response = RestAssured.get("https://reqres.in/api/users?page=2");
16        System.out.println("Response Code" + response.getStatusCode());
17
18        System.out.println("Response Status" + response.getStatusLine());
19        System.out.println("Response Body" + response.getBody().asPrettyString());
20
21
22        System.out.println("Response TIME" + response.getTime());
23
24        RestAssured.baseURI = "https://reqres.in/api/users";
25        RestAssured.given() // given above base URL
26        .queryParam("page", "2") // attach query paramters to URL
27        .when().get() // execute a get http method
28        .then().statusCode(200).log().all();
29    }
30 }
31
32
33
34
35
36
37
38
39
```

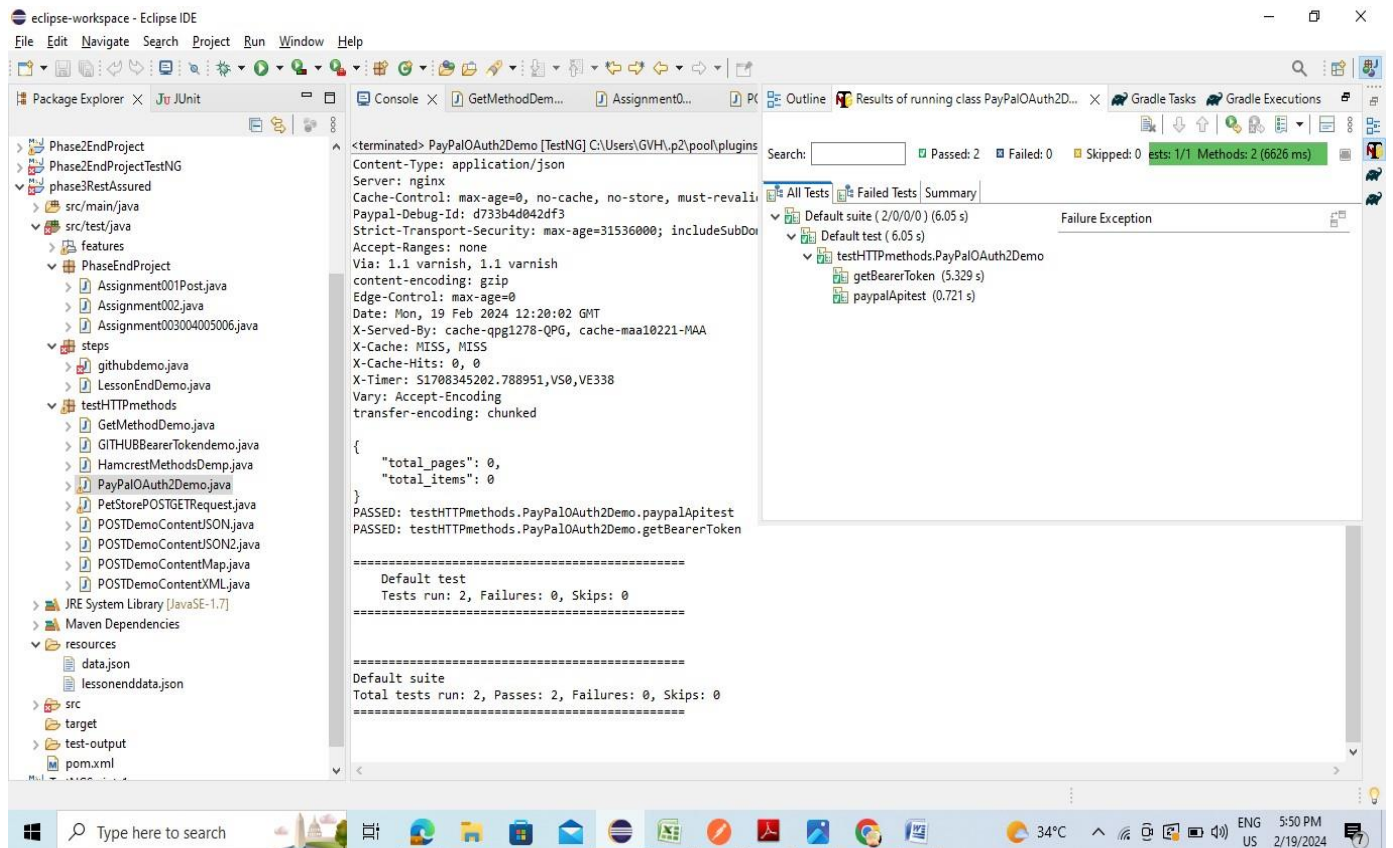
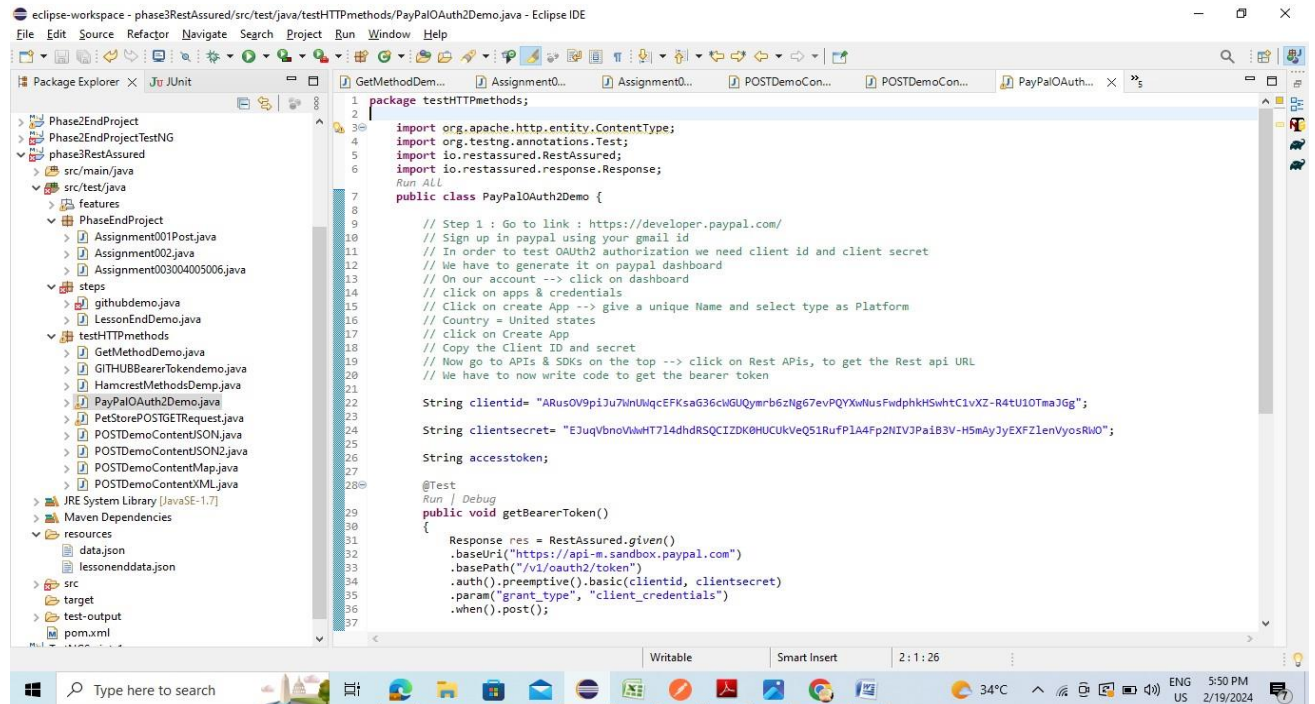


```
<terminated> GetMethodDemo [Java Application] C:\Users\GVH\p2\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.9.v20231028-0858\jre\bin\javaw.exe (Feb 19, 2024)
Response Code:200
Response Status:HTTP/1.1 200 OK
Response Body:
{
  "page": 2,
  "per_page": 6,
  "total": 12,
  "total_pages": 2,
  "data": [
    {
      "id": 7,
      "email": "michael.lawson@reqres.in",
      "first_name": "Michael",
      "last_name": "Lawson",
      "avatar": "https://reqres.in/img/faces/7-image.jpg"
    },
    {
      "id": 8,
      "email": "lindsay.ferguson@reqres.in",
      "first_name": "Lindsay",
      "last_name": "Ferguson",
      "avatar": "https://reqres.in/img/faces/8-image.jpg"
    },
    {
      "id": 9,
      "email": "tobias.funke@reqres.in",
      "first_name": "Tobias",
      "last_name": "Funke",
      "avatar": "https://reqres.in/img/faces/9-image.jpg"
    },
    {
      "id": 10,
      "email": "byron.fields@reqres.in",
      "first_name": "Byron",
      "last_name": "Fields",
      "avatar": "https://reqres.in/img/faces/10-image.jpg"
    }
  ]
}
```





6) Handle OAuth Authorization in REST API Using REST Assured.



7) Configure Log4j in Eclipse Maven Project.

The screenshot displays the Eclipse IDE interface. The top toolbar includes menus for File, Edit, Source, Refactor, Navigate, and Search. The Package Explorer on the left shows a project structure with folders like src/main/java, src/test/java, and src/main/resource. The file log4j2.properties is selected under src/main/resource. The main editor area shows the content of log4j2.properties, which configures Log4j2 with console and file appenders. The configuration includes properties for the filename, appenders, and layout patterns, as well as logger settings for testHTTPMethods.

```
1
2
3name=PropertiesConfig
4property.filename=logs
5appenders = console,file
6
7appender.console.type = Console
8appender.console.name = STDOUT
9appender.console.layout.type = PatternLayout
10appender.console.layout.pattern=[%-5level] %d{yyyy-MM-dd HH:mm:ss.SSS} [%t] %c{1} - %msg%n
11
12appender.file.type = File
13appender.file.name = LOGFILE
14appender.file.fileName=${filename}/Mylogs.log
15appender.file.layout.type=PatternLayout
16appender.file.layout.pattern=[%-5level] %d{yyyy-MM-dd HH:mm:ss.SSS} [%t] %c{1} - %msg%n
17
18loggers=file
19logger.file.name=testHTTPMethods
20logger.file.level = debug
21logger.file.appenderRefs = file
22logger.file.appenderRef.file.ref = LOGFILE
23
24rootLogger.level = debug
25rootLogger.appenderRefs = stdout
26rootLogger.appenderRef.stdout.ref = STDOUT
27
28
29
```

8) OAuth, SSL, and Log4j.

The screenshot displays the Eclipse IDE interface. The top menu bar includes File, Edit, Source, Refactor, Navigate, and Search. Below the menu is a toolbar with various icons. The Package Explorer on the left shows a project structure with the following items:

- Amazon
- ApachePOldemo
- ATE_Phase3-RestAssured-Feb
 - src/main/java
 - src/test/java
 - src/main/resource
 - log4j2.properties
 - JRE System Library [JavaSE-1.7]
 - Maven Dependencies
 - TestNG
 - logs
 - resources
 - src
 - target
 - test-output
 - pom.xml
- ATE-CapstoneProject
- ATE-Phase2-Cucumber
- ATE-Phase2-Cucumber-ExtentReports-Jenkins

The main editor area shows the content of the `log4j2.properties` file:

```
1
2
3name=PropertiesConfig
4property.filename=logs
5appenders = console,file
6
7appender.console.type = Console
8appender.console.name = STDOUT
9appender.console.layout.type = PatternLayout
10appender.console.layout.pattern=[%-5level] %d{yyyy-MM-dd HH:mm:ss.SSS} [%t] %c{1} - %msg%n
11
12appender.file.type = File
13appender.file.name = LOGFILE
14appender.file.fileName=${filename}/Mylogs.log
15appender.file.layout.type=PatternLayout
16appender.file.layout.pattern=[%-5level] %d{yyyy-MM-dd HH:mm:ss.SSS} [%t] %c{1} - %msg%n
17
18loggers=file
19logger.file.name=testHTTPMethods
20logger.file.level = debug
21logger.file.appenderRefs = file
22logger.file.appenderRef.file.ref = LOGFILE
23
24rootLogger.level = debug
25rootLogger.appenderRefs = stdout
26rootLogger.appenderRef.stdout.ref = STDOUT
27
28
29
```

