

Aim TO perform the final project To automate functionalities using <https://petstore.swagger.io/> REST API services

Code

```
package courseEndProject;
```

```
import java.io.File;
```

```
import org.apache.logging.log4j.LogManager;
```

```
import org.apache.logging.log4j.Logger;
```

```
import org.hamcrest.Matchers;
```

```
import org.testng.annotations.Test;
```

```
import io.restassured.RestAssured;
```

```
import io.restassured.http.ContentType;
```

```
public class Assignment001 {
```

```
    Logger logger = LogManager.getLogger(Assignment001.class);
```

```
    @Test(priority='1')
```

```
    public void assignment001Post()
```

```
    {
```

```
        logger.info("courseEndProject - Assignment001 - POST request");
```

```
        File file = new File("resources/data.json");
```

```
        int id = RestAssured.given()
```

```
            .baseUrl("https://petstore.swagger.io/v2/pet")
```

```
            .contentType(ContentType.JSON)
```

```
            .body(file)
```

```
            .when().post()
```

```
            .then()
```

```
        .statusCode(200)

        .log().all()

        .body("name", Matchers.equalTo("DOG")).extract().path("id");
logger.trace("The status code is checked");
```

```
System.out.println(id);
```

```
logger.trace("Id has been captured and validated");
```

```
}
```

```
@Test(priority='2',dependsOnMethods="assignment001Post")
```

```
public void assignment001Get()
```

```
{
```

```
    logger.info("courseEndProject - Assignment001 - GET request");
```

```
int id = RestAssured.given()
```

```
    .baseUrl("https://petstore.swagger.io/v2/pet/10007")
```

```
    .when()
```

```
    .get()
```

```
    .then()
```

```
    .statusCode(200)
```

```
    .log().all()
```

```
    .body("status", Matchers.equalTo("available")).extract().path("category.id");
```

```
System.out.println(id); // 0
```

```
logger.trace("Id and status has been captured and validated");
```

```
}
```

```
@Test(priority='3',dependsOnMethods="assignment001Get")
```

```
public void assignment001Delete()
```

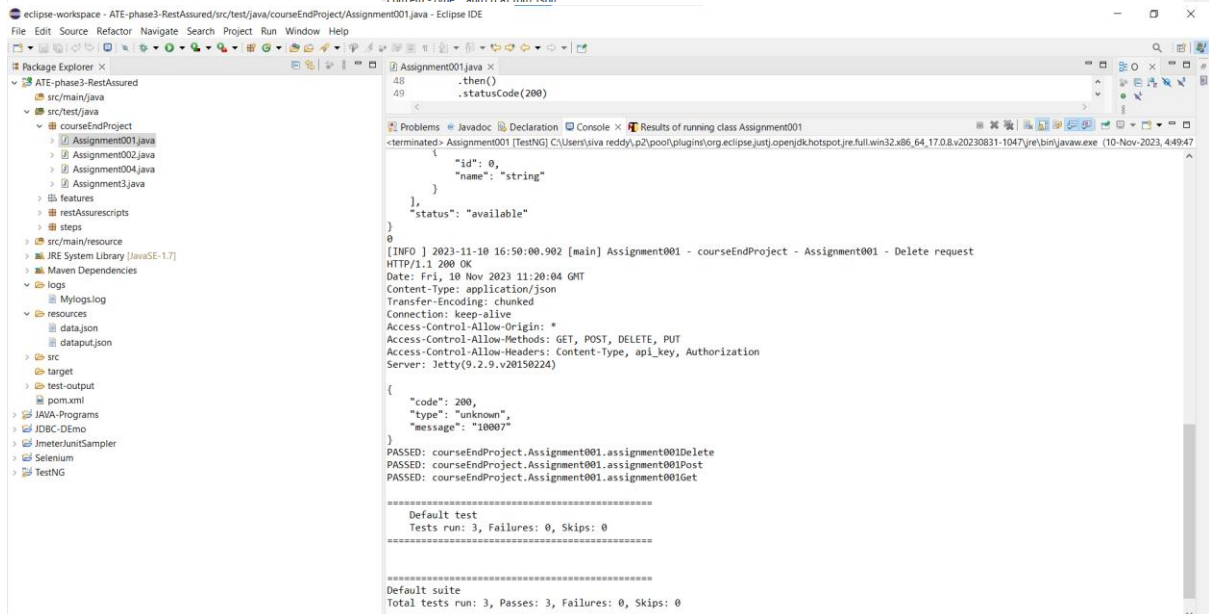
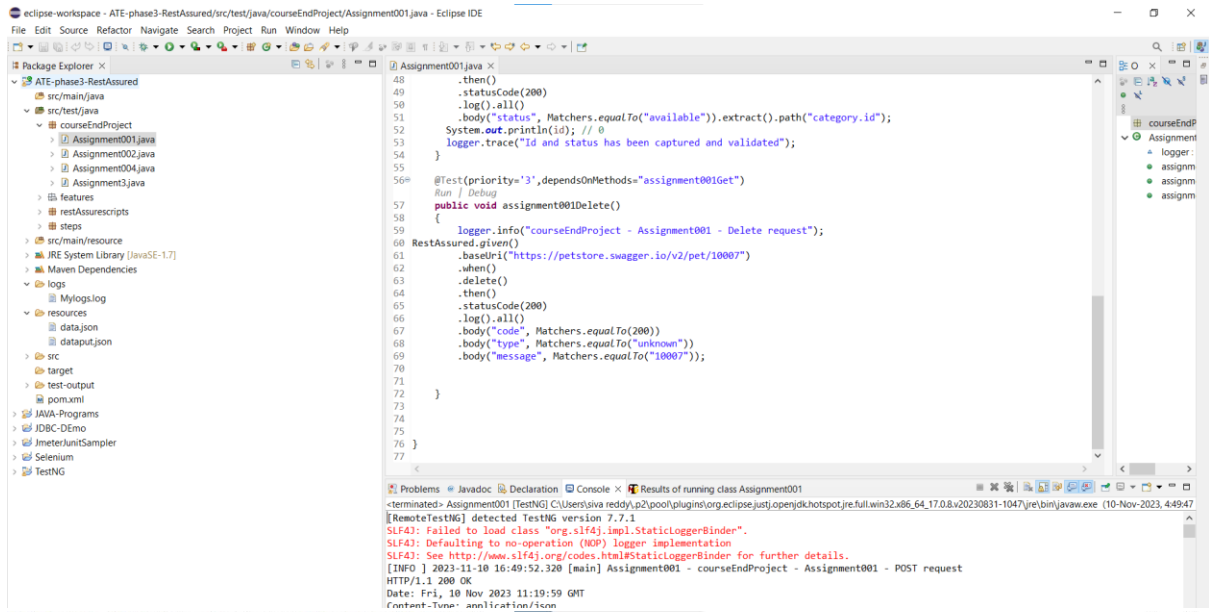
```
{
```

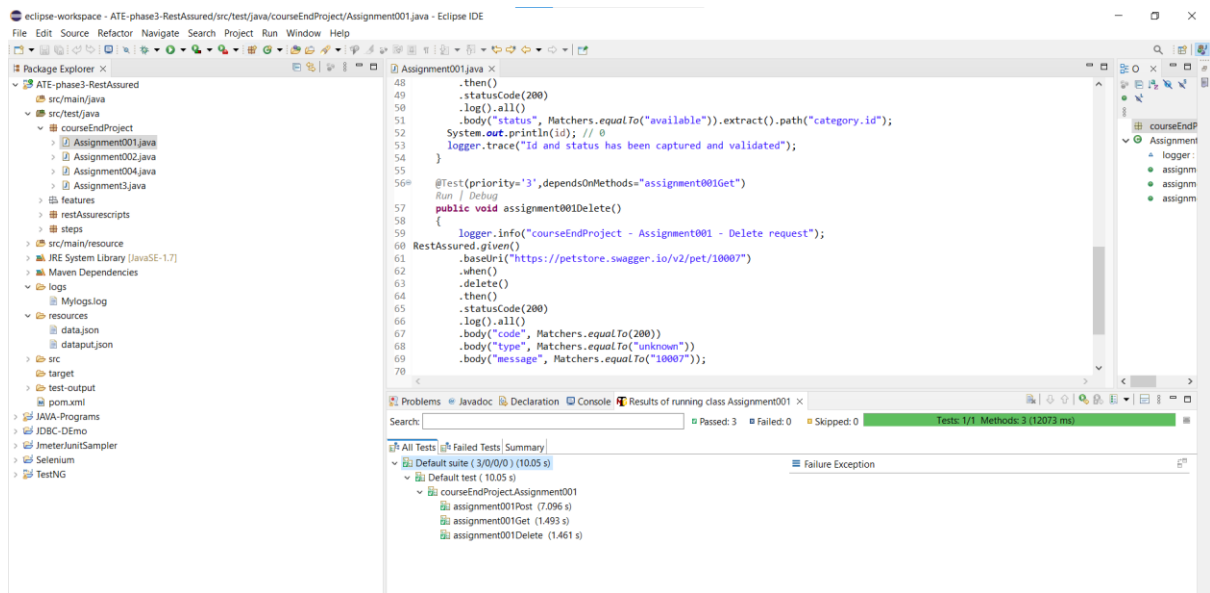
```
        logger.info("courseEndProject - Assignment001 - Delete request");
    RestAssured.given()
        .baseUrl("https://petstore.swagger.io/v2/pet/10007")
        .when()
        .delete()
        .then()
        .statusCode(200)
        .log().all()
        .body("code", Matchers.equalTo(200))
        .body("type", Matchers.equalTo("unknown"))
        .body("message", Matchers.equalTo("10007"));

    }

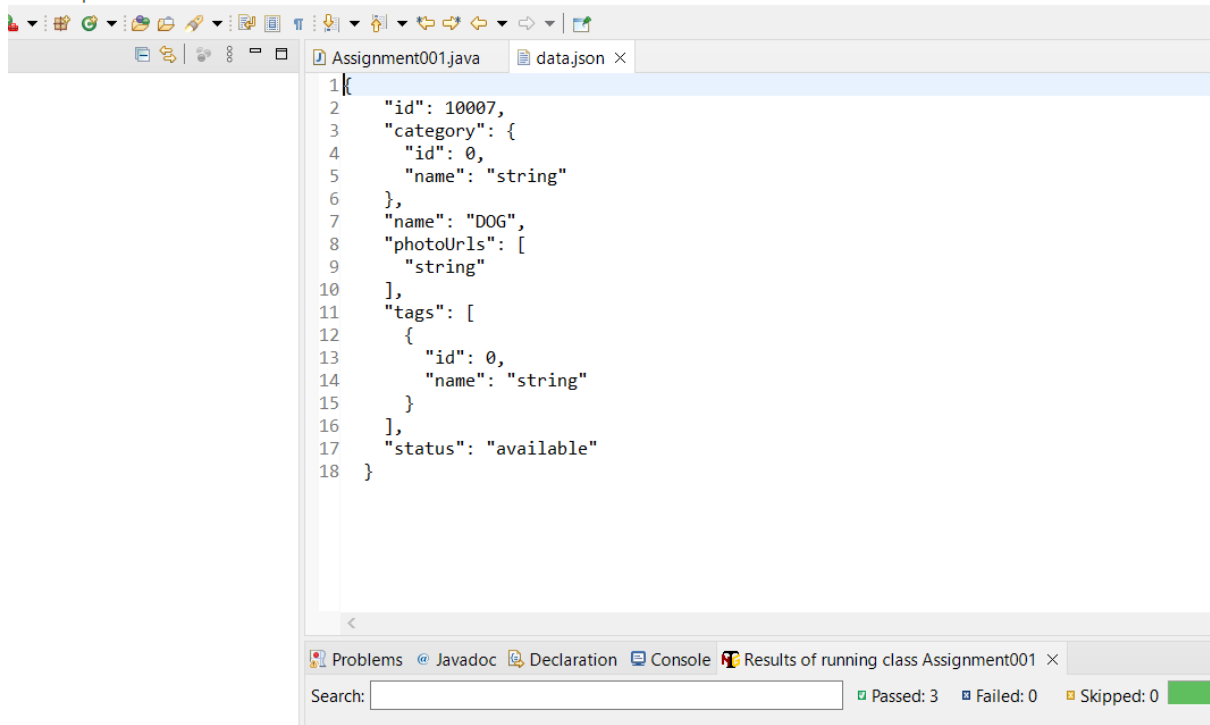
}
```

OUTPUT





dow Help



CODE

package courseEndProject;

import java.io.File;

```
import org.apache.logging.log4j.LogManager;

import org.apache.logging.log4j.Logger;

import org.hamcrest.Matchers;

import org.testng.annotations.Test;


import io.restassured.RestAssured;

import io.restassured.http.ContentType;


public class Assignment002 {

    Logger logger = LogManager.getLogger(Assignment002.class);

    @Test(priority='1')
    public void assignment002Post()
    {
        logger.info("CourseEndProject - Assignment002 - POST request");
        File file = new File("resources/data.json");
        int id = RestAssured.given()

            .baseUrl("https://petstore.swagger.io/v2/pet")

            .contentType(ContentType.JSON)

            .body(file)

            .when().post()

            .then()

            .statusCode(200)

            .log().all()

            .body("name", Matchers.equalTo("DOG")).extract().path("id");

        logger.trace("The status code is checked");

        System.out.println(id);

        logger.trace("Id has been captured and validated");
    }
}
```

```
}
```

```
@Test(priority='2',dependsOnMethods = "assignment002Post")
```

```
public void assignment002Put()
```

```
{
```

```
    File file = new File("resources/dataput.json");
```

```
    int id = RestAssured.given()
```

```
        .baseUrl("https://petstore.swagger.io/v2/pet/")
```

```
        .contentType(ContentType.JSON)
```

```
        .body(file)
```

```
        .when()
```

```
        .post()
```

```
        .then()
```

```
        .statusCode(200)
```

```
        .log().all()
```

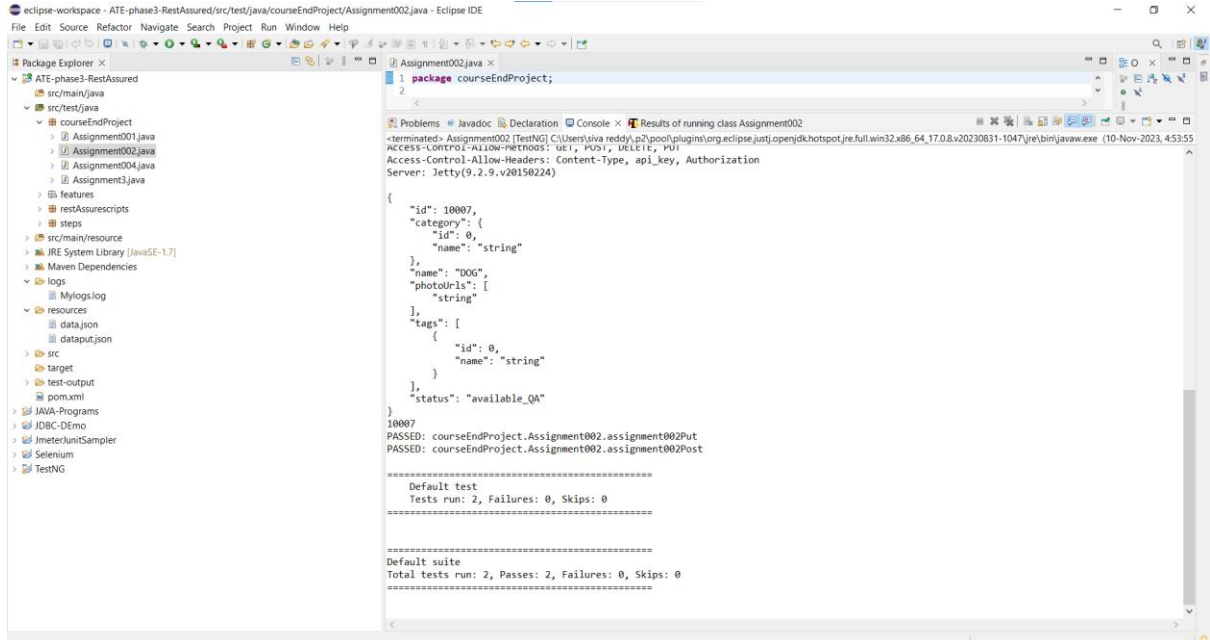
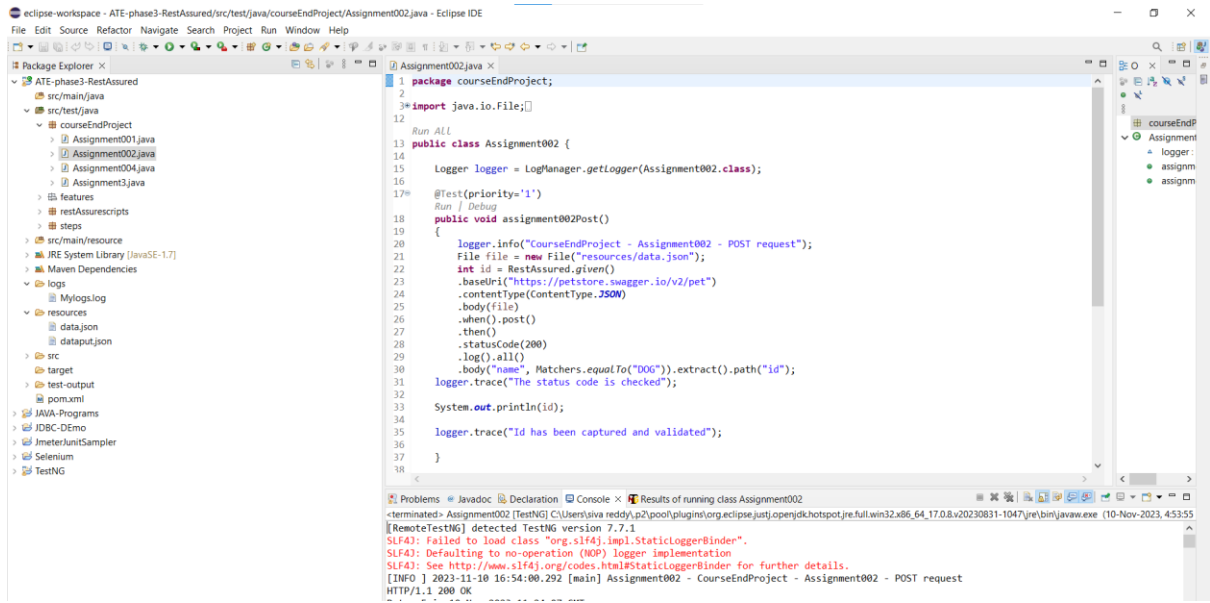
```
        .body("status", Matchers.equalTo("available_QA")).extract().path("id");
```

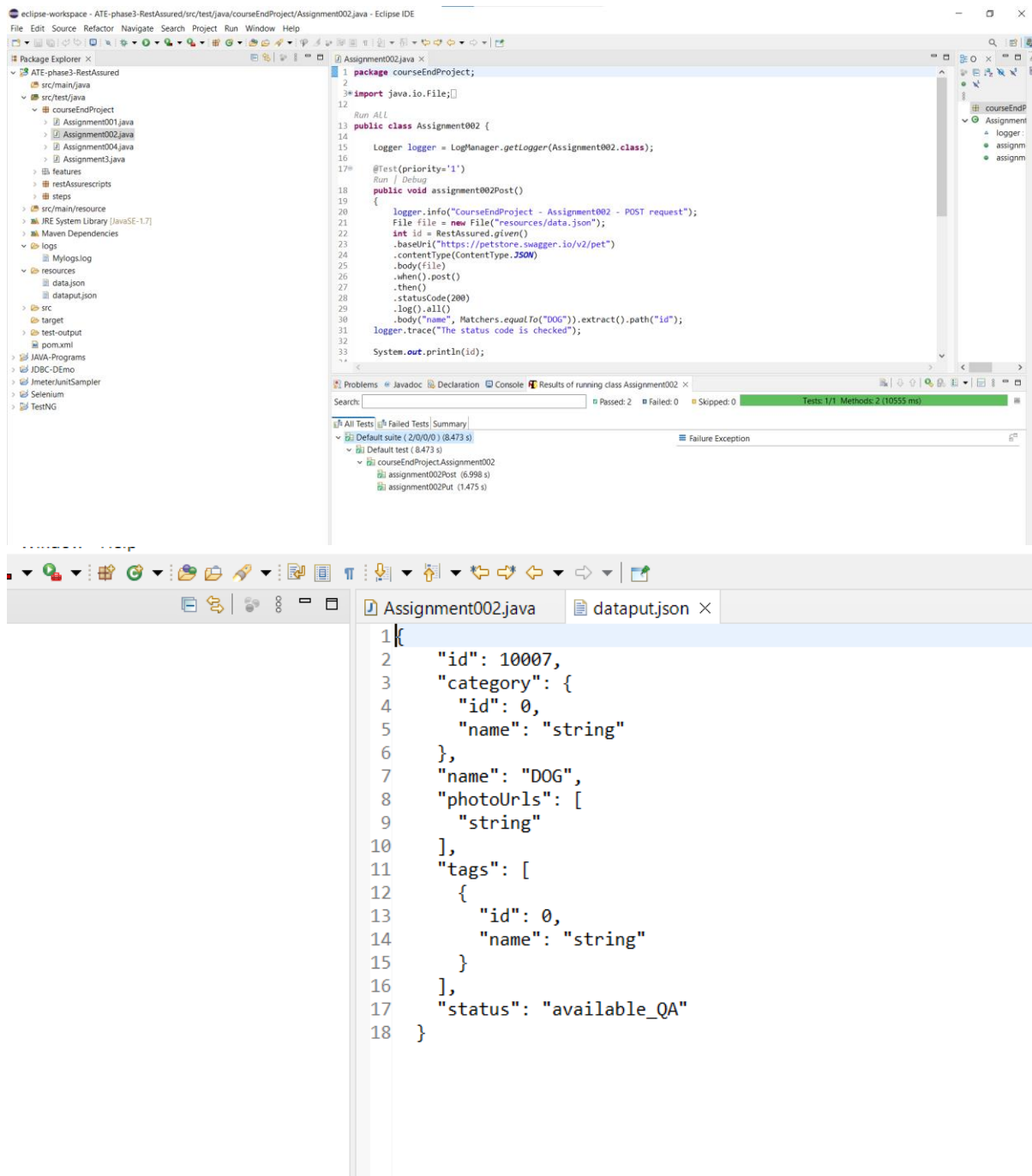
```
    System.out.println(id);
```

```
}
```

```
}
```

OUTPUTS:





3rd CODE:

package courseEndProject;

import org.hamcrest.Matchers;

import org.testng.annotations.Test;

```
import io.restassured.RestAssured;
```

```
public class Assignment3 {
```

```
    @Test(priority='1')
```

```
    public void assignment003User()
```

```
    {
```

```
        RestAssured.given()
```

```
        .baseUrl("https://petstore.swagger.io/v2/user/Uname001")
```

```
        .when()
```

```
        .get()
```

```
        .then()
```

```
        .statusCode(200)
```

```
        .log().all()
```

```
        .body("username", Matchers.equalTo("Uname001"))
```

```
        .body("email", Matchers.equalTo("Positive@Attitude.com"))
```

```
        .body("userStatus", Matchers.equalTo(1))
```

```
    ;
```

```
    }
```

```
    @Test(priority='2')
```

```
    public void assignment004login()
```

```
    {
```

```
        RestAssured.given()
```

```
        .baseUrl("https://petstore.swagger.io/v2/user/login")
```

```
        .auth().preemptive().basic("Uname001", "Positive@Attitude.com")
```

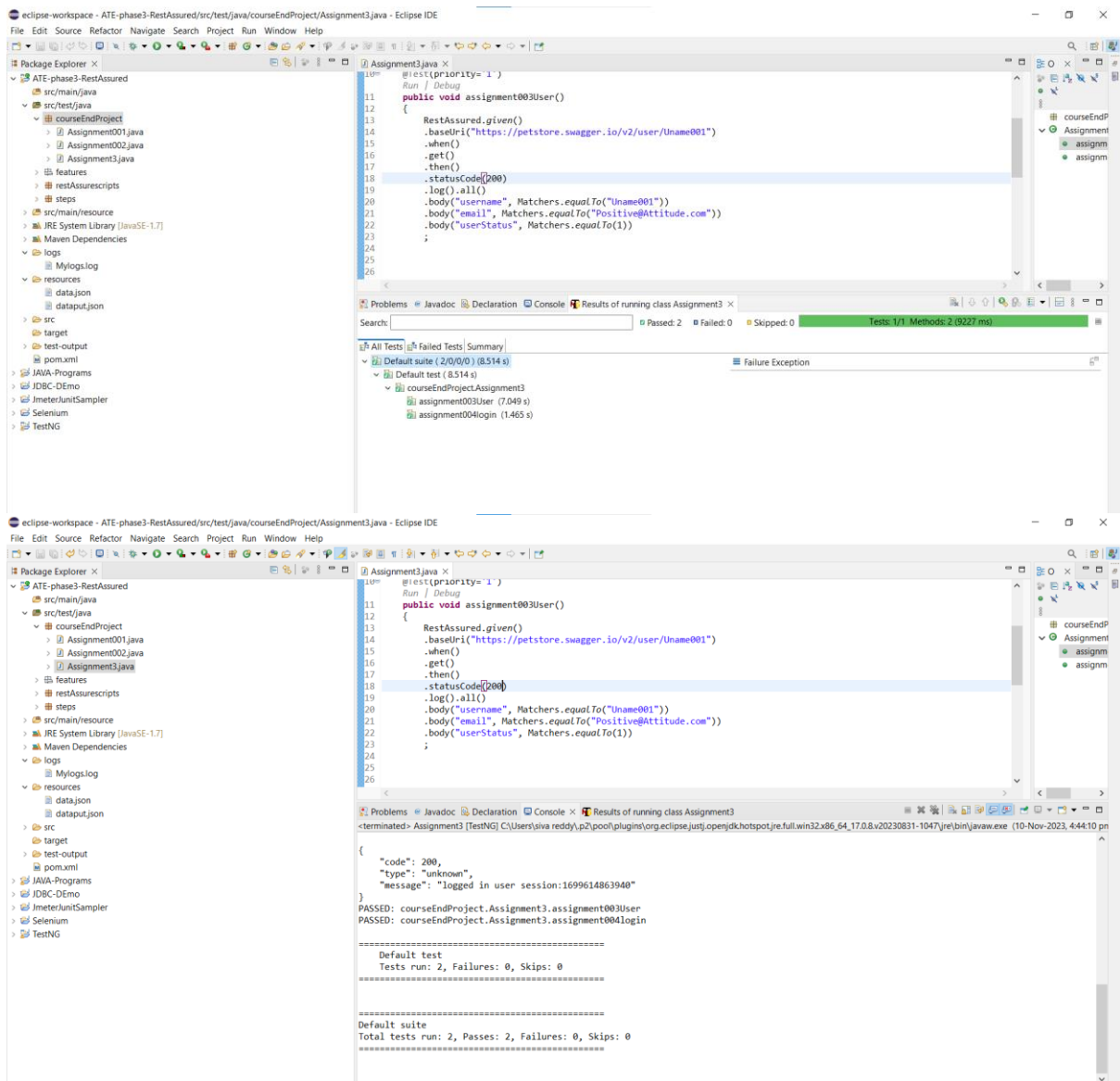
```
        .when()
```

```
.get()  
.then()  
.statusCode(200)  
.log().all()  
.body("message", Matchers.anything());
```

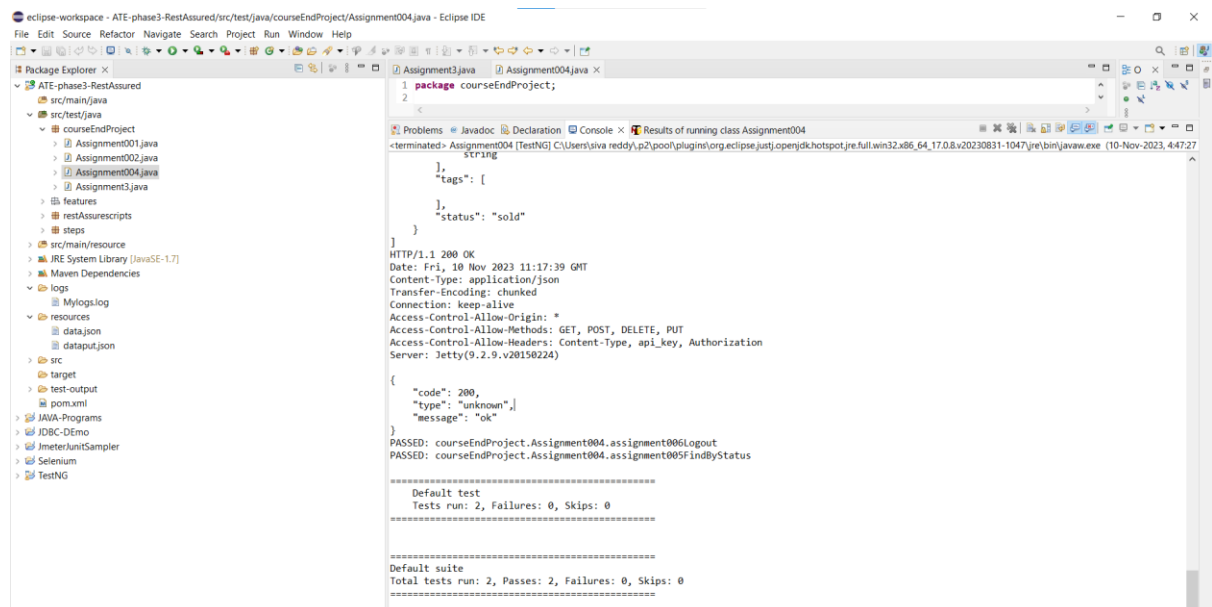
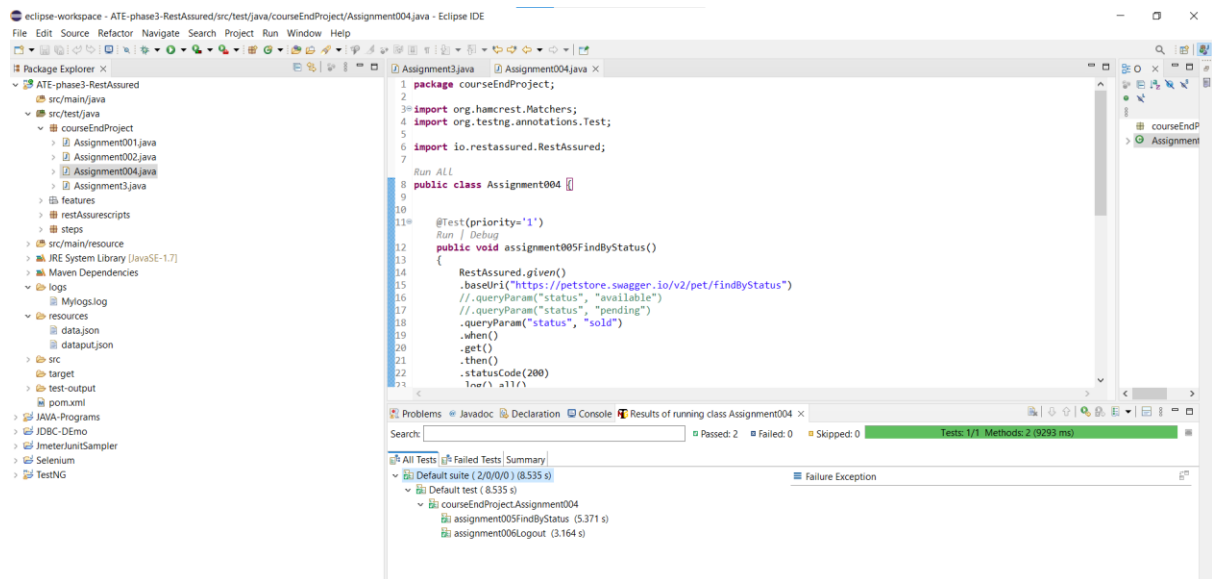
```
}
```

```
}
```

OUTPUTS:



4th CODE:



OUTPUTS for Postman:

Home Workspaces API Network Explore Search Postman

Phase3-Lesson2-APITesting New Import GET Assignment003 PUT PUT GET Assignment002 POST Create PetId prod

Collections + GitHub-API Pet_ID_Testing POST Create PetId GET Validate PetID GET Assignment002 DEL DELETE PUT PUT GET Assignment003 ApiTesting-Lesson2 CollectionRun-Newman ENDPROJECT HTTPMethods-Demo Lesson-EndProject Variables_Demo

Environments Monitors History

Pet_ID_Testing / Create PetId

POST https://petstore.swagger.io/v2/pet Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (8) Test Results Status: 200 OK Time: 838 ms Size: 464 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 1001,
3   "category": {
4     "id": 0,
5     "name": "string"
6   },
7   "name": "DOG",
8   "photoUrls": [
9     "string"
10  ],
11  "tags": [
12    {
13      "id": 0,
14      "name": "string"
15    }
16  ],
17  "status": "available"
18 }
```

Home Workspaces API Network Explore Search Postman

Phase3-Lesson2-APITesting New Import GET Assignment003 PUT PUT GET Assignment002 POST Create PetId GET Validate PetID prod

Collections + GitHub-API Pet_ID_Testing POST Create PetId GET Validate PetID GET Assignment002 DEL DELETE PUT PUT GET Assignment003 ApiTesting-Lesson2 CollectionRun-Newman ENDPROJECT HTTPMethods-Demo Lesson-EndProject Variables_Demo

Environments Monitors History

Pet_ID_Testing / Validate PetID

GET https://petstore.swagger.io/v2/pet/{petId} Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (8) Test Results (1/1) Status: 200 OK Time: 279 ms Size: 464 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 1001,
3   "category": {
4     "id": 0,
5     "name": "string"
6   },
7   "name": "DOG",
8   "photoUrls": [
9     "string"
10  ],
11  "tags": [
12    {
13      "id": 0,
14      "name": "string"
15    }
16  ],
17  "status": "available"
18 }
```

Home Workspaces API Network Explore Search Postman

Phase3-Lesson2-APITesting New Import GET Assignment003 PUT PUT GET Assignment002 POST Create PetId GET Validate PetID prod

Collections + GitHub-API Pet_ID_Testing POST Create PetId GET Validate PetID GET Assignment002 DEL DELETE PUT PUT GET Assignment003 ApiTesting-Lesson2 CollectionRun-Newman ENDPROJECT HTTPMethods-Demo Lesson-EndProject Variables_Demo

Environments Monitors History

Pet_ID_Testing / Validate PetID

GET https://petstore.swagger.io/v2/pet/{petId} Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (8) Test Results (1/1) Status: 200 OK Time: 279 ms Size: 464 B Save as e

All Passed Skipped Failed

PASS Status code is 200

Home Workspaces API Network Explore Search Postman

Phase3-Lesson2-APITesting New Import GET Assignment003 PUT PUT POST Create PetID GET Validate PetID DEL DELETE prod

Collections

- GitHub-API
- Pet_ID_Testing
 - POST Create PetID
 - GET Validate PetID
 - DEL DELETE
 - PUT PUT
 - GET Assignment003

Environments

- ApiTesting-Lesson2
- CollectionRun-Newman
- ENDPROJECT
- HTTPMethods-Demo
- Lesson-EndProject
- Variables_Demo

Monitors

History

Pet_ID_Testing / DELETE

DELETE https://petstore.swagger.io/v2/pet/{petId} Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
4
```

Body Cookies Headers (8) Test Results (1/1) Status: 200 OK Time: 273 ms Size: 372 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "code": 200,
3   "type": "unknown",
4   "message": "1001"
}
```

Home Workspaces API Network Explore Search Postman

Phase3-Lesson2-APITesting New Import GET Assignment003 PUT PUT POST Create PetID GET Validate PetID DEL DELETE prod

Collections

- GitHub-API
- Pet_ID_Testing
 - POST Create PetID
 - GET Validate PetID
 - DEL DELETE
 - PUT PUT
 - GET Assignment003

Environments

- ApiTesting-Lesson2
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Monitors

History

Pet_ID_Testing / PUT

PUT https://petstore.swagger.io/v2/pet/ Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "id": 9223372016900013000,
3   "category": {
4     "id": "{{petid}}",
5     "name": "string"
6   },
7   "name": "{{petname}}",
8   "photoUrls": [
9     "string"
10  ],
11  "tags": [
12    {
13      "id": 0,
14      "name": "string"
15    }
16  ],
17  "status": "{{envstatus}}"
18 }
```

Body Cookies Headers (8) Test Results (1/2) Status: 200 OK Time: 272 ms Size: 486 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 9223372016900013000,
3   "category": {
4     "id": 1001,
5     "name": "string"
6   }
}
```

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Search Postman

Invite

Phase3-Lesson2-APITesting

NewImport

GET Assignment003PUT PUTPOST Create PetIdGET Validate PetIdDEL DELETE

Collections

APIs

Environments

Monitors

History

+

GitHub-API

Pet_ID_Testing

POST Create PetId

GET Validate PetId

DEL DELETE

PUT PUT

GET Assignment003

ApiTesting-Lesson2

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ENDPROJECT

HTTPMethods-Demo

Lesson-EndProject

Variables_Demo

Pet_ID_Testing / PUT

PUThttps://petstore.swagger.io/v2/pet/

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

1

BodyCookiesHeaders (8)Test Results (1/2)

PrettyRawPreviewVisualizeJSON

1" id": 9223372016900013000,
2" category": {
3" id": 1001,
4" name": "string"
5},
6" name": "DOG",
7" photoUrls": [
8" string"
9],
10" tags": [
11{
12" id": 0,
13" name": "string"
14},
15],
16" status": "{envstatus}"
17
18

Status: 200 OK

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Search Postman

Invite

Upgrade

Phase3-Lesson2-APITesting

NewImport

GET Assignment003PUT PUTPOST Create PetIdGET Validate PetIdDEL DELETE

prod

Collections

APIs

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+

GitHub-API

Pet_ID_Testing

POST Create PetId

GET Validate PetId

DEL DELETE

PUT PUT

GET Assignment003

ApiTesting-Lesson2

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ENDPROJECT

HTTPMethods-Demo

Lesson-EndProject

Variables_Demo

Pet_ID_Testing / PUT

PUThttps://petstore.swagger.io/v2/pet/

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

1

BodyCookiesHeaders (8)Test Results (1/2)

AllPassedSkippedFailed

STATUS: 200 OK

Time: 272 ms

Size: 486 B

Save as example

FAIL Your test name | AssertionError: expected undefined to deeply equal 'available_DEV'

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Search Postman

Invite

Upgrade

Phase3-Lesson2-APITesting

NewImport

GET Assignment003PUT PUTPOST Create PetIdGET Validate PetIdDEL DELETE

prod

Collections

APIs

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History

+

GitHub-API

Pet_ID_Testing

POST Create PetId

GET Validate PetId

DEL DELETE

PUT PUT

GET Assignment003

ApiTesting-Lesson2

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ENDPROJECT

HTTPMethods-Demo

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Variables_Demo

Pet_ID_Testing / Assignment003

GEThttps://petstore.swagger.io/v2/user/logout

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

KeyValueDescriptionBulk Edit

KeyValueDescription

BodyCookiesHeaders (8)Test Results

STATUS: 200 OK

Time: 841 ms

Size: 370 B

Save as example

1"code": 200,
2"type": "unknown",
3"message": "ok"
4
5

Phase3-Lesson2-APITestingNewImportGET Assignment003PUT PUTPOST Create PetIDGET Validate PetIDDEL DELETEGlobals+prod

Collections+APISEnvironmentsMonitorsHistory

GlobalsdevprodProject-VariablesQA

Globals

Global variables for a workspace are a set of variables that are always available within the scope of that workspace. They can be viewed and edited by anyone in that workspace.
[Learn more about globals](#)

Filter variables

Variable	Type	Initial value	Current value	
<input checked="" type="checkbox"/> uname	default	▼ Uname001	Uname001	
Add new variable				

Phase3-Lesson2-APITestingNewImportGET Assignment003PUT PUTPOST Create PetIDGET Validate PetIDDEL DELETEGlobalsdevprod

Collections+APISEnvironmentsMonitorsHistory

GlobalsdevprodProject-VariablesQA

dev

Filter variables

Variable	Type	Initial value	Current value	
<input checked="" type="checkbox"/> City	default	▼ New York	New York	
<input checked="" type="checkbox"/> petid	default	▼ 1001	1001	
<input checked="" type="checkbox"/> petname	default	▼ DOG	DOG	
Add new variable				

Phase3-Lesson2-APITestingNewImportGET Assignment003PUT PUTPOST Create PetIDGET Validate PetIDDEL DELETEGlobalsdevprodprod

Collections+APISEnvironmentsMonitorsHistory

GlobalsdevprodProject-VariablesQA

prod

Filter variables

Variable	Type	Initial value	Current value	
<input checked="" type="checkbox"/> petid	default	▼ 1001	1001	
<input checked="" type="checkbox"/> petname	default	▼ DOG	DOG	
Add new variable				

Phase3-Lesson2-APITestingNewImportGET Assignment003PUT PUTPOST Create PetIDGET Validate PetIDDEL DELETEGlobalsdevprodQA

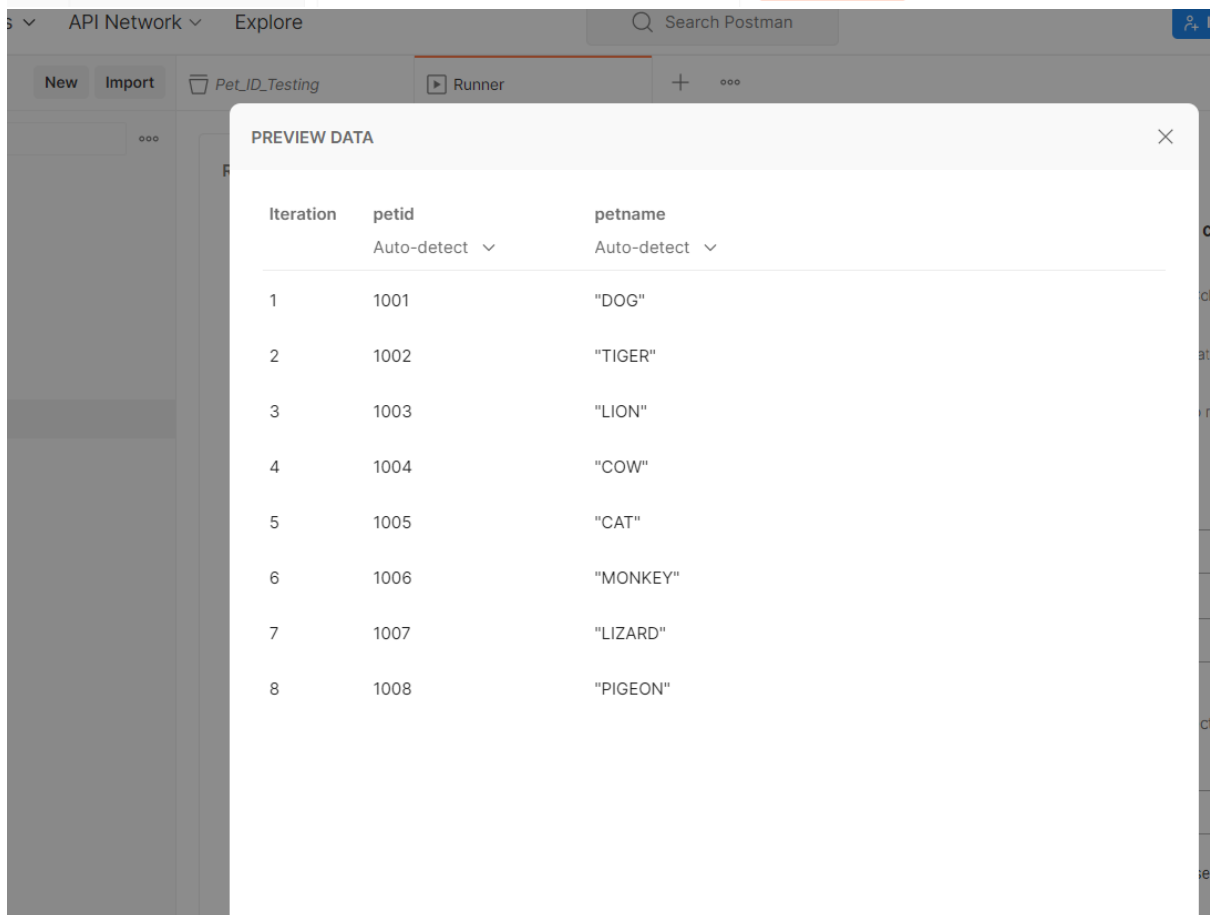
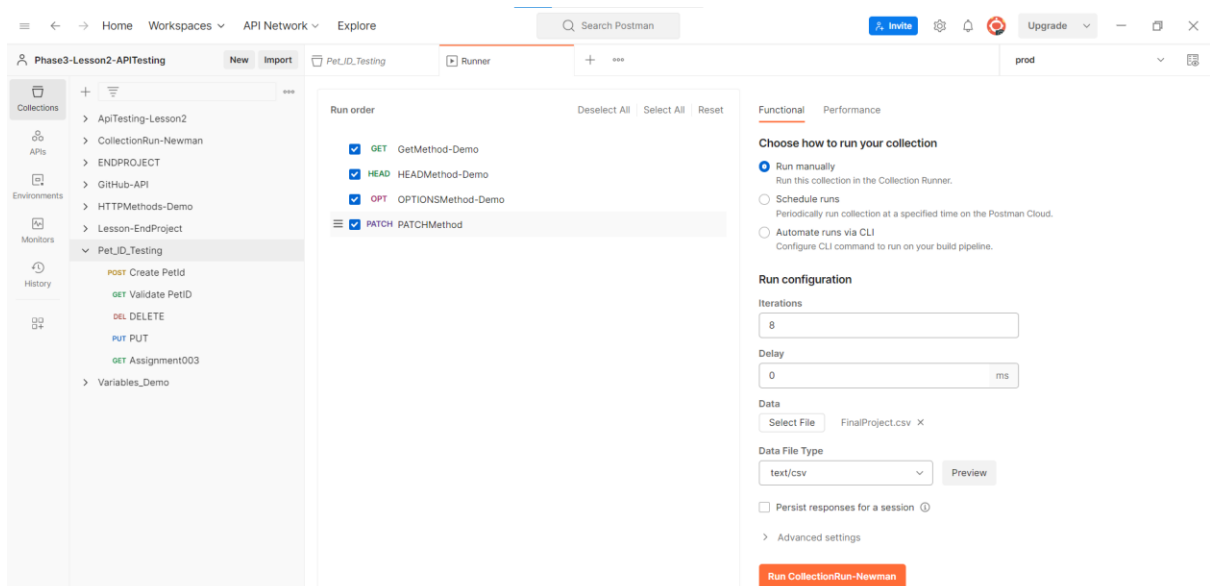
Collections+APISEnvironmentsMonitorsHistory

GlobalsdevprodProject-VariablesQA

QA

Filter variables

Variable	Type	Initial value	Current value	
<input checked="" type="checkbox"/> City	default	▼ New delhi	New delhi	
<input checked="" type="checkbox"/> petid	default	▼ 1001	1001	
<input checked="" type="checkbox"/> petname	default	▼ DOG	DOG	
Add new variable				



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Phase3-Lesson2-APITestingNewImport

Pet_ID_TestingCollectionRun-Newman+...

prod

Collections+APIsEnvironmentsMonitorsHistory

ApiTesting-Lesson2

CollectionRun-Newman

ENDPROJECT

GitHub-API

HTTPMethods-Demo

Lesson-EndProject

Pet_ID_Testing

- POST Create PetId
- GET Validate PetID
- DEL DELETE
- PUT PUT
- GET Assignment003

Variables_Demo

CollectionRun-Newman - Run results

Run today at 18:10:30 · [View all runs](#)

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	prod	8	18s 51ms	0	442 ms

All TestsPassed (0)Failed (0)Skipped (0)[View Summary](#)

PATCH PATCHMethod

https://jsonplaceholder.typicode.com/posts/2

200 OK 333 ms 1.39 KB

No tests found

Iteration 8

GET GetMethod-Demo

https://api.postman.com/workspaces

200 OK 516 ms 1.15 KB

No tests found

HEAD HEADMethod-Demo

https://api.postman.com/workspaces

200 OK 469 ms 431 B

No tests found

OPTIONS OPTIONSMETHOD-Demo

https://api.postman.com/workspaces

200 OK 270 ms 285 B

No tests found

PATCH PATCHMethod

https://jsonplaceholder.typicode.com/posts/2

200 OK 332 ms 1.234 KB

No tests found