Code of Non-Functional Testing Using Postman, REST Assured, and JMeter :

CODE OF RestAssured:

```java
package phaseEndproject;

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;

import testHTTPmethods.Log4J2Demo;

public class Assignment001Post {

        Logger logger =  LogManager.getLogger(Assignment001Post.class);

        @Test(priority='1')

        public void assignment001post()

        {

                logger.info(" pahse End project - Assignment001- Post Request");

                File file = new File("resources/data1.json");

                int id = RestAssured.given()

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

                .contentType(ContentType.JSON)

                .body(file)

                .when().post()

                .then().statusCode(200)

                .log().all()
```

```java
            .body("name", Matchers.equalTo("doggie")).extract().path("id");

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

            System.out.println(id);

            logger.info("Id has been captured and printed.");

    }

    @Test(priority='2',dependsOnMethods= {"assignment001post"})

    public void assignment001Get()

    {

            String url = "https://petstore.swagger.io/v2/pet/947";

            RestAssured.given()

            .baseUri(url)

            .when().get()

            .then().statusCode(200)

            .log().all()

            .body("status", Matchers.equalTo("available"))

            .body("id", Matchers.equalTo(947));

    }

    @Test(priority='3',dependsOnMethods= {"assignment001post"})

    public void assignment001Delete()

    {

            String url = "https://petstore.swagger.io/v2/pet/947";

            RestAssured.given()

            .baseUri(url)

            .when().delete()

            .then().statusCode(200)

            .log().all()
```

```
                .body("code", Matchers.equalTo(200))

                .body("message", Matchers.equalTo("947"));

        }

}
```

ASSIGNEMENT002 CODE:

```java
package phaseEndproject;

import java.io.File;
import org.hamcrest.Matchers;
import org.testng.annotations.Test;
import io.restassured.RestAssured;
import io.restassured.http.ContentType;

public class Assignment002

    @Test

    public void post_status_available()
    {
        File file = new File("resources/data1.json");

        int id = RestAssured.given()

    .baseUri("https://petstore.swagger.io/v2/pet")
                .contentType(ContentType.JSON)
                .body(file)
                .when().post()
                .then().statusCode(200)
                .body("name",
Matchers.equalTo("doggie")).extract().path("id");

        System.out.println(id);
    }

    @Test(priority='2')

    public void put_status_available_Dev()
    {
        File file = new File("resources/data-
dev.json");
```

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

    .baseUri("https://petstore.swagger.io/v2/pet")
                .contentType(ContentType.JSON)
                .body(file)
                .when().put()
                .then().statusCode(200)
                .body("status",
Matchers.equalTo("available_DEV")).extract().path("id
");

        System.out.println(id);
    }

    @Test(priority='3')

    public void put_status_available_QA()
    {
        File file = new File("resources/data-
qa.json");

        int id = RestAssured.given()

    .baseUri("https://petstore.swagger.io/v2/pet")
                .contentType(ContentType.JSON)
                .body(file)
                .when().put()
                .then().statusCode(200)
                .body("status",
Matchers.equalTo("available_QA")).extract().path("id"
);

        System.out.println(id);
    }

    @Test(priority='4')

    public void put_status_available_Prod()
    {
        File file = new File("resources/data-
prod.json");

        int id = RestAssured.given()
```

```java
        .baseUri("https://petstore.swagger.io/v2/pet")
                .contentType(ContentType.JSON)
                .body(file)
                .when().put()
                .then().statusCode(200)
                .body("status",
Matchers.equalTo("available_PROD")).extract().path("i
d");

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

ASSIGNEMENT003004005006 CODE:

```java
package phaseEndproject;

import org.hamcrest.Matchers;

import org.testng.annotations.Test;

import io.restassured.RestAssured;

public class Assignement003004005006 {

    //@Test

    public void assignment003()

    {

        String url = "https://petstore.swagger.io/v2/user/user123";

        RestAssured.given()

        .baseUri(url)

        .when().get()

        .then().statusCode(200)

        .log().all()

        .body("username", Matchers.equalTo("user123"))

        .body("email", Matchers.equalTo("user@gmail.com"))

        .body("userStatus",Matchers.equalTo(0));
```

```java
        }
//@Test
public void assignment004()
{
        String url = "https://petstore.swagger.io/v2/user/login";
        RestAssured.given()
        .baseUri(url)
        .auth().preemptive().basic("user123", "user@123")
        .when().get()
        .then().statusCode(200)
        .log().all()
        .body("message", Matchers.anything());
        }
//@Test
public void assignment005_available()
{
        String url = "https://petstore.swagger.io/v2/pet/findByStatus";
        RestAssured.given()
        .baseUri(url)
        .queryParam("status", "available")
        .when().get()
        .then().statusCode(200)
        .log().all();
        }


//@Test
```

```java
public void assignment005_pending()
{
        String url = "https://petstore.swagger.io/v2/pet/findByStatus";
        RestAssured.given()
        .baseUri(url)
        .queryParam("status", "pending")
        .when().get()
        .then().statusCode(200)
        .log().all();
}



//@Test
public void assignment005_sold()
{
        String url = "https://petstore.swagger.io/v2/pet/findByStatus";
        RestAssured.given()
        .baseUri(url)
        .queryParam("status", "sold")
        .when().get()
        .then().statusCode(200)
        .log().all();
}
@Test
public void assignment006()
{
        String url = "https://petstore.swagger.io/v2/user/logout";
        RestAssured.given()
        .baseUri(url)
```

```
                .when().get()

                .then().statusCode(200)

                .log().all();

        }

}
```

CODE OF POSTMAN:

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

```json
"id": 2003,
"category": {
 "id": 0,
 "name": "string"
},
"name": "Doggie",
"photoUrls": [
 "string"
],
"tags": [
  {
 "id": 0,
 "name": "string"
  }
],
"status": "available"
}
```

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

```json
    {
    "id": 344,
    "category": {
     "id": 0,
     "name": "string"
    },
    "name": "Doggie",
    "photoUrls": [
     "string"
    ],
    "tags": [
      {
     "id": 0,
     "name": "string"
```

```
      }
    ],
    "status": "available_DEV"
}
```