SourceCode :

```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/data.json");
                int id = RestAssured.given()
                .baseUri("https://petstore.swagger.io/v2/pet")
                .contentType(ContentType.JSON)
                .body(file)
                .when().post()
                .then().statusCode(200)
                .log().all()
                .body("name", Matchers.equalTo("goat")).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()
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                .body("code", Matchers.equalTo(200))
                .body("message", Matchers.equalTo("947"));

    }

}

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/data.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("goat")).extract().path("id");
                            System.out.println(id);
    }
    @Test(priority='2')
    public void put_status_available_Dev()
    {
            File file = new File("resources/data-dev.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-
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);
```

```java
        }
        @Test(priority='4')
        public void put_status_available_Prod()
        {
                File file = new File("resources/data-prod.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-
Prod")).extract().path("id");
                        System.out.println(id);
        }

}


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));

        }
        //@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());

        }
```

```java
//@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
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();

}

}
```

Json code :

```
{
"id": petid,
 "category":
 {
 "id": 0,
"name": "string"
 },
 "name": "petname",
 "photoUrls": [
 "string"
 ],
 "tags":
 [ {
"id": 0,
 "name": "string"
 } ],
 "status": "available"
}

{
 "id": 9223372016900013000,
 "category":
 {
 "id": 20021,
 "name": "string"
 },
 "name": "doggie",
 "photoUrls":
 [
"string"
 ],
 "tags"
: [ {
"id": 0,
"name": "string"
 } ],
 "status": "available_QA"
}
```