REST Assured Logging and Debugging

In **Rest Assured**, logging and debugging are important for understanding how your requests are being sent and what responses you're getting — especially when you're troubleshooting failed tests or verifying behavior.

Here's a detailed breakdown of **logging and debugging in Rest Assured**, including examples:



🔍 1. Enabling Logging in Rest Assured

Rest Assured provides built-in methods to log the following:

- Request details (log().all())
- Response details (then().log().all())
- Specific parts (headers, body, status, etc.)

Log Request Details

```
java
import static io.restassured.RestAssured.*;
public class LogReguestExample {
    public static void main(String[] args) {
        given()
            .log().all() // Log request URI, headers, parameters, etc.
            .get("https://jsonplaceholder.typicode.com/posts/1")
            .then()
            .statusCode(200);
    }
}
```

Log Response Details

```
java
import static io.restassured.RestAssured.*;
public class LogResponseExample {
    public static void main(String[] args) {
        when()
            .get("https://jsonplaceholder.typicode.com/posts/1")
            .log().all() // Log full response (headers + body + status)
            .statusCode(200);
    }
```

2. Logging on Failure Only

Useful for cleaner test output — logs only when a test fails.

```
given()
    .log().ifValidationFails() // Log request only if validation fails
.when()
    .get("https://jsonplaceholder.typicode.com/posts/1")
.then()
    .log().ifValidationFails() // Log response only if validation fails
    .statusCode(404); // This will fail and log everything
```

③ 3. Logging Specific Parts

- Request body only: .log().body()
- Request headers only: .log().headers()
- Response body only: .log().body()
- Status line: .log().status()

```
given()
    .log().headers()
    .log().body()
.when()
    .get("https://jsonplaceholder.typicode.com/posts/1")
.then()
    .log().status();
```

% 4. Debugging with Filters

Filters allow you to intercept and log/customize requests and responses.

Example: Using RequestLoggingFilter and ResponseLoggingFilter

☐ 5. Writing Logs to a File

You can write logs to a file using PrintStream:

Best Practices for Logging in Test Suites

Scenario	Recommended Logging
Development/debugging	.log().all()
CI/CD pipelines	.log().ifValidationFails()
Production test reports	Log to files using PrintStream
Custom logging needs	Use Filters

Let me know if you'd like a mini project or assignment based on Rest Assured logging and debugging.