## System Role

Basic Prompt You are an expert Java (Python) software security auditor, please check whether there is any crypto API misuses (or insecure use of crypto API) in below code.

Focus solely on security issues related to cryptographic APIs, without addressing best practices.

UC

Considering potential misuses related but not limited to Common Weakness Enumeration IDs 256, 295, 297, 321, 326, 327, 338, 547, 650, 757, 759, and 760.

TΔ

**Setting** 

Ensure your findings focuses on following misuse categories: CWE-327: Use of a Broken or Risky Cryptographic Algorithm.

CWE-295: Improper Certificate Validation.

CWE-330: Use of Insufficiently Random Values. CWE-326: Inadequate Encryption Strength.

CWE-798: Use of Hardcoded Credentials.

CWE-798: Use of Hardcoded Credentials.

CWE-757: Selection of Less-Secure Algorithm During Negotiation.

Formatting

Reply in a bare JSON format as below:

[{ "misuse": "CWE identifier (e.g., CWE-327)", "vulnerable\_method": "class and method name containing the vulnerability".

"vulnerable\_code": "code snippet showcasing the misuse",
"description": "description of why the code is insecure",
"recommendation": "suggestions to mitigate the misuse"

},{"misuse": "..."}]

Here is the code: [code snippets].

