Advanced Encryption Tool (AES-256) - Output Proof

Developer: Viraj Bhoir

Project Overview:

Project Name: Advanced_Encryption_Tool

Main Class: FileEncryptor.java

Function: Encrypts and decrypts files using AES-256 with PBKDF2 key derivation.
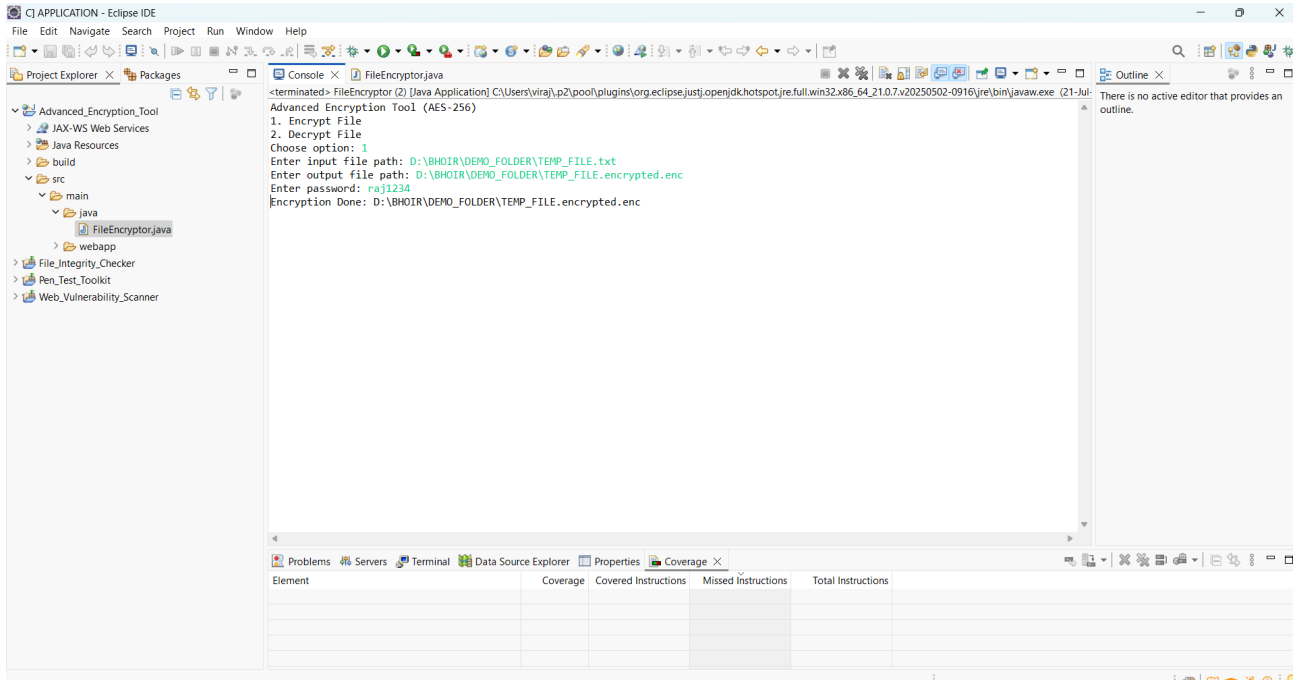
Encryption Process:

Selected Option: 1 (Encrypt File)

Input File: TEMP_FILE.txt

Output File: TEMP_FILE.encrypted.enc

Password Used: raji1234

Summary: The file was encrypted successfully using AES-256 CBC Mode with random salt and IV.

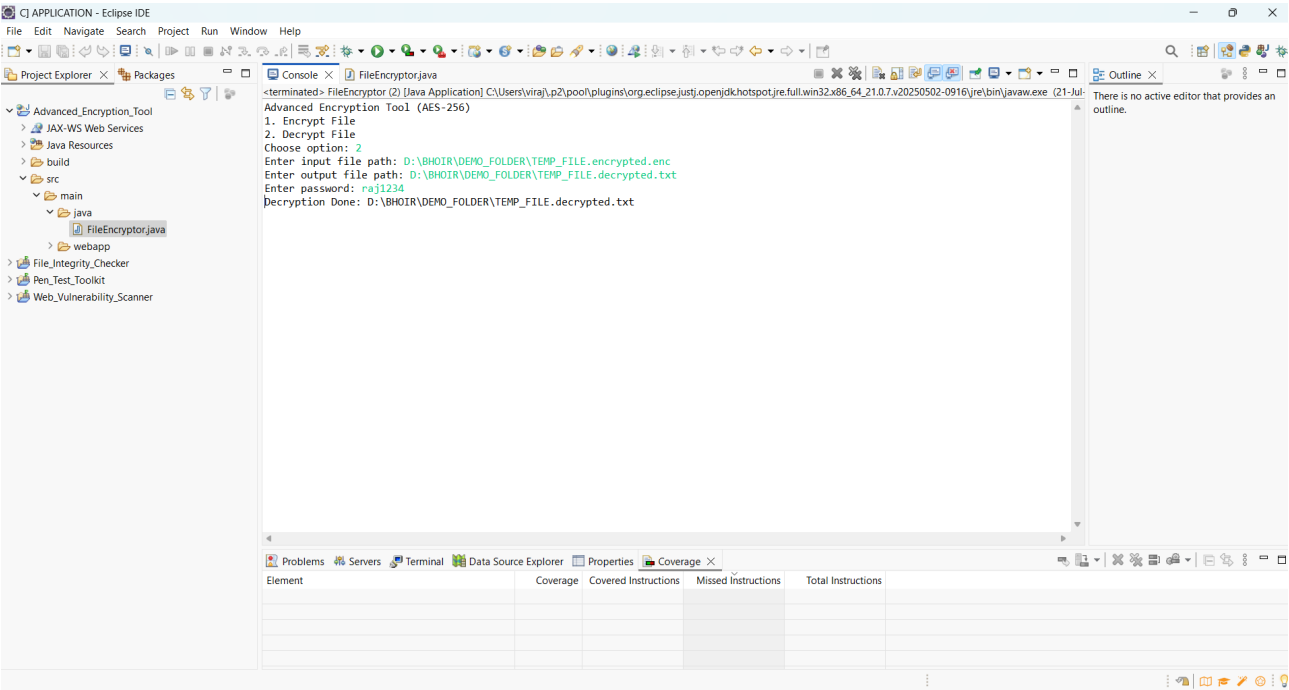**Decryption Process:**

Selected Option: 2 (Decrypt File)

Input File: TEMP_FILE.encrypted.enc

Output File: TEMP_FILE.decrypted.txt

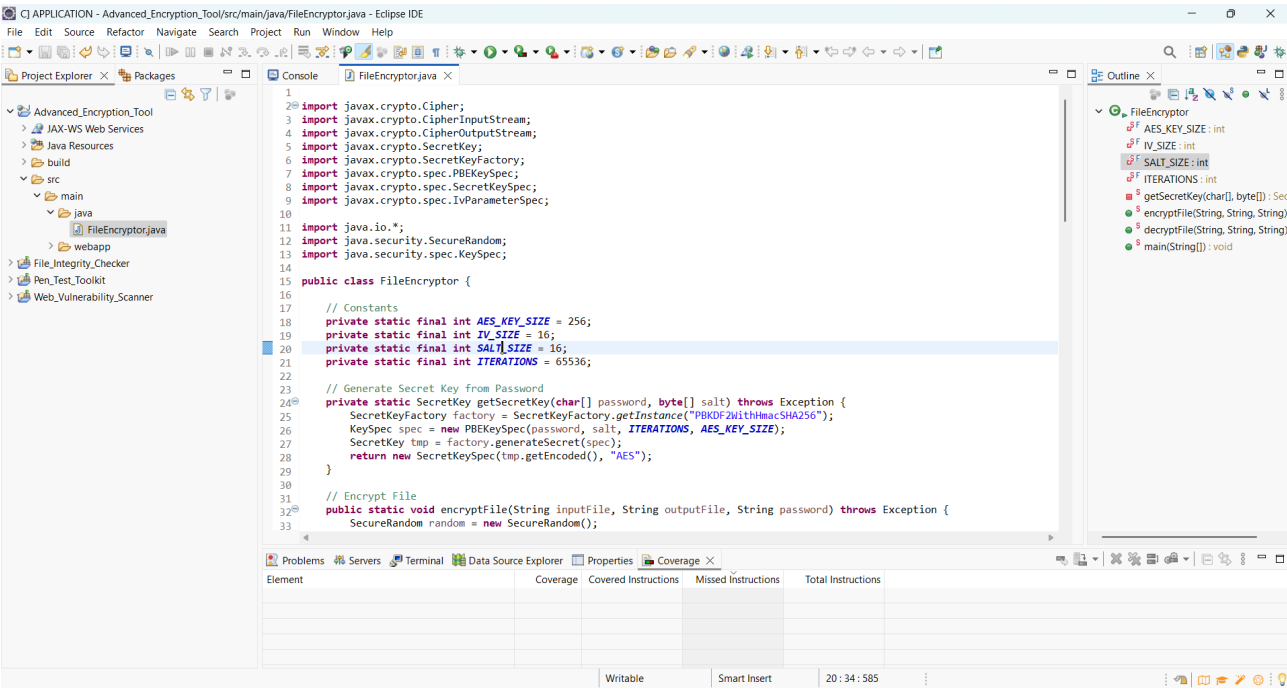# Advanced Encryption Tool (AES-256) - Output Proof

Password Used: raji1234

Summary: The file was decrypted successfully and matches the original file.

Code Snapshot (Reference):

AES Key Size: 256 bits

Salt Size: 16 bytes

IV Size: 16 bytes

Iterations: 65536

Key Derivation: PBKDF2WithHmacSHA256 (Java Built-in)

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Final Status Summary:

Task	Status
File Encryption	Done
File Decryption	Done
Console Output Captured	Done
Code Proof Shown	Done