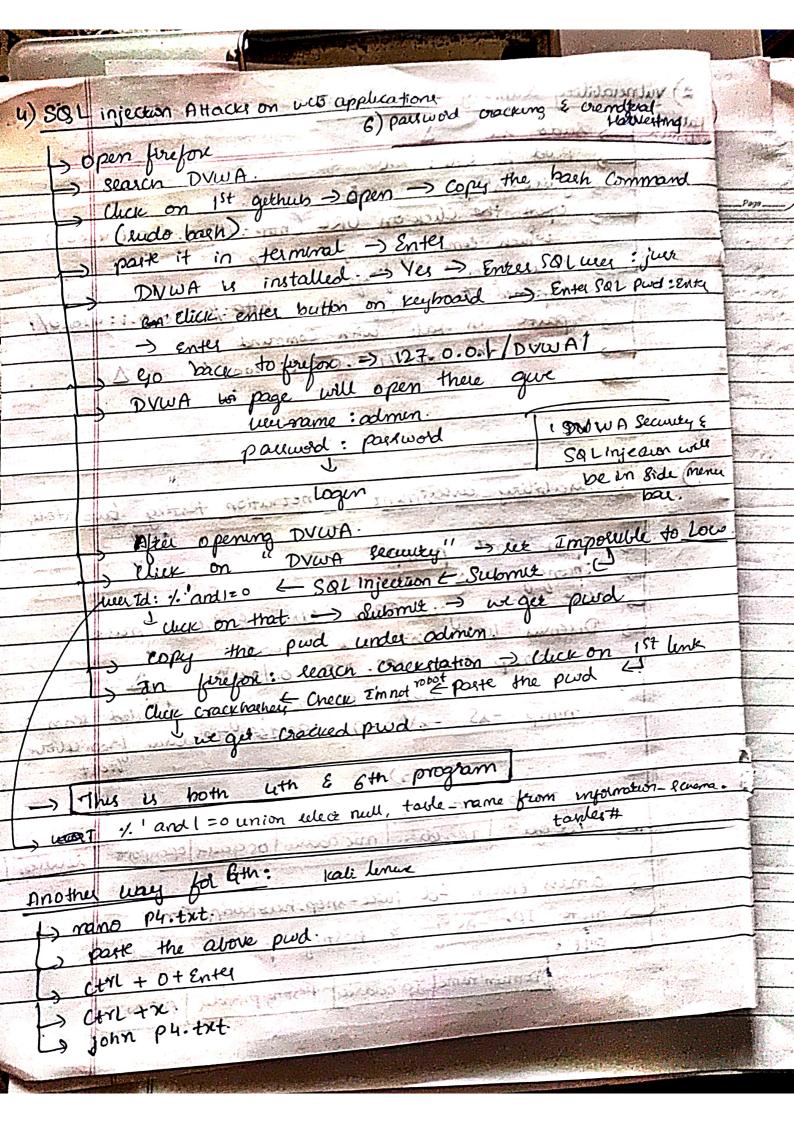
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3) Exploiting a known vulnerability.
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9). Preparation: Installing OWASP ZAP on Kali Linux

1. Download ZAP:

- Go to https://www.zaproxy.com
- Download the Linux installer.

2. Install ZAP:

- Open Terminal.
- Navigate to Downloads:
 cd Downloads
- o Make the installer executable: chmod o+x <filename>
- Run the installer: ./<filename>
- Follow the installation prompts.

Running the Penetration Test

Step 1: Launch OWASP ZAP

Run zaproxy in terminal or open from Kali Applications Menu.

Step 2: Start a New Session

- When prompted, either:
 - Click Start a new session, or
 - Click No when asked to persist the session.

Step 3: Initiate an Automated Scan

- · Go to Quick Start tab.
- In the URL box, enter: http://juice-shop.herokuapp.com
- Click Attack.

Step 4: Monitor the Scan

- ZAP will first spider (crawl) the site, then perform active scanning.
- Watch the status bar for progress.

Step 5: Analyze Results

- Go to the Alerts tab.
- You'll see a list of vulnerabilities like:
 - XSS (Cross-Site Scripting)
 - SQL Injection
 - Broken Authentication
 - Insecure Direct Object References (IDOR)

Step 6: Investigate and Document Findings

- Double-click on each alert for:
 - A detailed description.
 - Evidence of the vulnerability.
 - Suggested remediation steps.