# Cryptography Network Security Lab-10

**Perform brute force attack on DVWA to crack the user credentials like username and password.**

**Brute Force Attack**: In the brute force vulnerability we can test whether the login portal is vulnerable to the brute force or not. Here we can try almost all combination of words, number, special symbol. The main goals are to crack the login name and password.

**Damm Vulnerable Web Application** (DVWA) coded in PHP/MYSQL. Seriously it is too vulnerable. In this application security professionals, ethical hackers test their skills and run this tool in a legal environment. It also helps web developer better understand the processes of securing web applications. The aim of DVWA is to practice some of the most common web vulnerability, with various difficulties levels.

Every vulnerability has four different security levels, low, medium, and high. The security levels give a challenge to the 'attacker' and shows how each vulnerability can be counter measured by secure coding.

- **Low:** This security level is meant to simulate a website with no security at all implemented in their coding. It gives the 'attacker' the chance to refine their exploitation skills.
- **Medium:** This security level's purpose is to give the 'attacker' a challenge in exploitation and also serve as an example of bad coding/security practices.
- **High:** This vulnerability level gives the user an example of how to secure the vulnerability via secure coding methods. This level of security should be un-hackable however as we all know this is not always the case.

**How to use DVWA?**

- You must go to this link DVWA Link: http://www.dvwa.co.uk/ and download.
- Once you downloaded and install (https://www.youtube.com/watch?v=_jtPeyl_KCc)
- You will require XAMPP(for windows).
- You have to install Burp suite to perform brute force attack on DVWA.

**Resources:**

- XAMPP: https://www.apachefriends.org/download.html
- Burp Suite: https://portswigger.net/burp/releases/professional-community-2020-9-2?requestededition=community
- Brute force attack using DVWA: https://www.youtube.com/watch?v=jrjaMAiQibw