

### **Mini Project Tasks:**

1. Perform Foot printing on Microsoft Website and gather information about website by using online Websites (Whois / netcraft / Shodan / dnsdumpster., etc.) as much as possible and write report on gathered info along with screenshots
2. Test the System Security by using PRORAT / Darkcommet (Anyone Tool) Trojan by hacking virtual machine and try to take screenshots & Keystrokes along with change data in Desktop. Write a report on vulnerability issue along with screenshots how you performed and suggest the security patch to avoid these type of attacks

Hacker Machine : Windows 7 / Windows 10

Victim machine : Windows XP / Windows 7

3. Use BVM Tool (Download from Internet) to create a virus and inject in to Virtual system and perform destruction program as per your wish and write a document along with screenshots and suggest the preventive measures to avoid this malware affect

Hacker Machine : Windows 7 / Windows 10

Victim machine : Windows XP / Windows 7

4. Write a small batch program and save as .bat extension and execute in victim machine (Windows 7 / Windows 10 / Windows XP)
5. Perform SQL injection on by using Havij Tool(Download it from Internet) on <http://testphp.vulnweb.com> Write a report along with screenshots and mention preventive steps to avoid SQL injections
6. Use Wireshark Tool(Download it from Internet) to sniff the data and try to get the username and password of <http://demo.testfire.net/>
7. Clone a Facebook page and try to perform Desktop Phishing in your local machine and capture the credentials and write the document along with screenshots and suggest the solution to avoid from phishing
8. Try to Encrypt the Data in image file using quick stego tool (Download from Internet) and command prompt also and show them how to decrypt also. Write a report advantages of cryptography and steganography)

#### **Note:**

1. Write a Document with on each task along with screenshots and after attack mention the solutions to avoid those attacks
2. Use Only Virtual Machines to perform the tasks
3. Don't try these attacks on real-time environment, we won't be responsible for any misuse
4. Create a New lab with all the Operating system and practice on that
5. Refer Internet resources for solutions and complete the project within given date.