First Assignment

Install the following tools Wireshark Packeth (Install this tool after installing Wireshark otherwise some library error will occur) Analyse Wireshark tool Create ICMP packet using packeth and analyse it.

Second Assignment

Install XAMPP in windows machine and LAMPP in Linux machines Implementation of XML as database and data transport.

Third Assignment

Validation of XML files Implementation of XPath Implementation of XPath Injection

Fourth Assignment

Cookie Analysis (Transport analysis through Wireshark) Modification in Cookie

Fifth Assignment

Analyse the IP fragmentation and Reassembly using Wireshark If possible analyze the IPv6 fragmentation packet with and without PMTUD.

Sixth Assignment

Create the HTTP authentication for session management using the .htaccess

Seventh Assignment (optional)

Analyse and differentiate the New IP header and IP header in Tunnel mode of IPSec.

Eighth Assignment

XSS Implementation. Prevention of XSS using HTML special characters

Ninth Assignment

SSL protocol Analysis (Algorithm and Key Negotiation)