**Cyber forensics**

AVISPA SPAN Link: <https://people.irisa.fr/Thomas.Genet/span/>

<https://www.youtube.com/watch?v=euG4jlct7AY&t=4s>

Avispa + SPAN Set

Basic Program step by step Illustration(from desktop sample programs)

Assignment 1: Exploring AVISPA for Internet Security Protocols and Step-by-Step Installation of AVISPA tool.

Assignment 2: Exploring and Analysing Basic Internet Security Protocols using AVISPA tool.

Assignment 3: Exploring and Analysing key exchange Security Protocols and other protocols using aAVISPA tool. Part 1: Explore 3 Algorithms from "key exchange Security Protocols " and 3 from others security algorithms. Part 2: Draw working flow Diagram of diffie hellman key exchange algorithm, and Write Code and Analyse using Avispa Tool(Agent's name will be ABC and XYZ). Attach (part1 code and Span Diagrams) and Part2 : (working, flow digram, Code, Results and SPAN Diagrams)

FTK IMAGER

Autopsy

Assignment 4: Exploring **Autopsy digital forensic tool**, Step-by-Step Installation, and perform analysis of Local Disk Data files (Pendrive, Harddisk etc.)

Assignment 5: Exploring FTK imager and Encase imager tool, Step-by-Step Installation, and creation and Analysis of storage/Android image file using Autopsy Digital Forensic Tool.

Andriod Analyzer:<https://sleuthkit.discourse.group/t/andriod-analyzer/1526>

**Adding a Data Source in Autopsy**:<https://sleuthkit.org/autopsy/docs/user-docs/4.15.0/ds_page.html>

Assignment 6 : NMAP Introduction, Step by Step Installation and Implementation of Basic Scanning Techniques using various commands

Assignment 7: Impliment Discovery, port Scanning and Advanced Scanning Techniques

Assignment 8: Implementation of Operating System and Service Detection , scanning Techniques with timing options and Output Operations using various commands.

Assignment 9: Installation, basics and working on Zenmap and installation of Wireshark.

Assignment 10 : Introduction to Tcpdump and Wireshark.

Sample pcap dataset:  
Sample1: <https://www.wireshark.org/download/automated/captures/>   
Sample2: Please find attached ZIP file.

Assignment 11: pdf file