

## **EXPERIMENT NO : 02**

**AIM :** To implement Email Analysis

### **THEORY :**

Email analysis is the process of collecting, preserving, and examining electronic mail (email) messages in order to extract information that can be used as evidence in criminal, civil, or corporate investigations. The goal of email analysis is to identify, preserve, and interpret email messages and other related data to uncover patterns of behavior, establish timelines, and gather evidence of potential illegal activities.

In digital forensics, email analysis typically involves the following steps:

1. Collection and preservation of email data, which involves acquiring email messages and related data from a variety of sources, such as email servers, individual computers, and other digital devices.
2. Analysis of email metadata, including information such as the sender, recipient, subject, date and time, and other details, which can help establish a timeline of events and identify key players.
3. Content analysis, which involves searching for specific keywords and phrases, as well as reviewing attachments and other related content, to uncover evidence of potential illegal activities.
4. Authentication and validation, which involves verifying the authenticity and validity of the email data, such as by comparing hash values or analyzing header information.
5. Reporting, which involves documenting the findings of the email analysis in a comprehensive report that presents the evidence in a clear and concise manner.

Email analysis is an important tool in digital forensics, and it can play a critical role in criminal, civil, and corporate investigations by providing evidence of potential illegal activities and supporting the prosecution of individuals involved.

Email analysis is an important tool in digital forensics and has a number of important applications and benefits, including:

1. Evidence gathering: Email analysis can uncover critical information and evidence that can be used in criminal, civil, or corporate investigations. This can include evidence of illegal activities, such as fraud, embezzlement, or insider trading.
2. Timeline establishment: By analyzing email metadata, such as the date and time of messages, email analysis can help establish a timeline of events, which can be crucial in understanding the sequence of events leading up to an incident.
3. Identification of key players: Email analysis can help identify key individuals involved in an investigation by analyzing the sender and recipient information, as well as the content of the messages.

4. Support for prosecution: Email analysis can provide crucial evidence that can be used to support the prosecution of individuals involved in illegal activities.
5. Corporate investigations: Email analysis can play an important role in corporate investigations by uncovering evidence of unethical or illegal business practices.
6. E-discovery: Email analysis can be used in civil litigation to support electronic discovery (e-discovery) requests and provide relevant information that may be used as evidence in court.
7. Data protection: Email analysis can help organizations protect sensitive data by identifying potential security breaches and unauthorized access to email accounts.

## OUTPUT :

The screenshot shows a web browser window for the URL <https://app.voilanorbert.com/#/prospecting/manual>. The interface is titled 'PROSPECTING' and includes a sidebar with options like 'Manual', 'Bulk', 'Contacts', 'VERIFY', and 'LINKEDIN'. The main area displays search results for 'Sunil Bobade Nhtm' (email: sunilbobade@nhtm.ac.in), 'Megha Gupta Nhtm' (email: megahgupta@nhtm.ac.in), and 'Ravish Shaikh Nhtm' (note: 'I'm sorry I was not able to find the email'). There are buttons for 'GET MORE CREDITS', 'UPGRADE NOW', and a user profile for 'Armash Momin'.

**CONCLUSION :** In conclusion, email analysis is a crucial tool in digital forensics that can help uncover evidence, establish timelines, identify key players, support prosecution, and provide critical information in a variety of investigations.