**Practical - 01**

**Aim :**

Write a program for Tracking Emails and Investigating Email Crimes. i.e. Write a program to analyze e–mail header.

**Code :**

import email

import sys

def process\_part(part):

content\_type = part.get\_content\_type()

if "text/plain" in content\_type:

return part.get\_payload(decode=True).decode()

if "text/html" in content\_type:

return part.get\_payload(decode=True).decode()

if "multipart" in content\_type:

parts = part.get\_payload()

body = ""

for p in parts:

body += process\_part(p) + "\n"

return body

def analyze\_email\_header(email\_data):

try:

msg = email.message\_from\_string(email\_data)

headers = msg.items()

print("------ Email Headers ------")

for key, value in headers:

print(f"{key}: {value}")

print("---------------------------")

body = process\_part(msg)

print("------ Email Body ------")

print(body)

print("------------------------")

except Exception as e:

print(f"Error analyzing email header: {e}")

if \_\_name\_\_ == "\_\_main\_\_":

if len(sys.argv) != 2:

print("Usage: python analyze\_email\_header.py <path\_to\_email\_file>")

sys.exit(1)

email\_file = sys.argv[1]

with open(email\_file, "r") as file:

email\_data = file.read()

analyze\_email\_header(email\_data)

**Output :**

