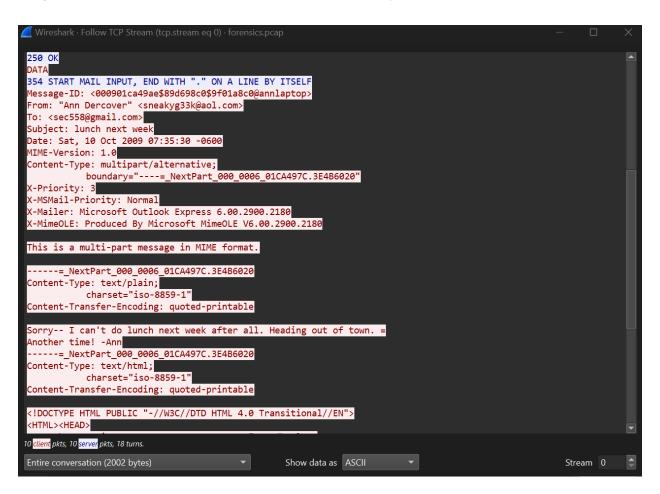
Lab 3

Narendra Gautam Sontu - 002241534

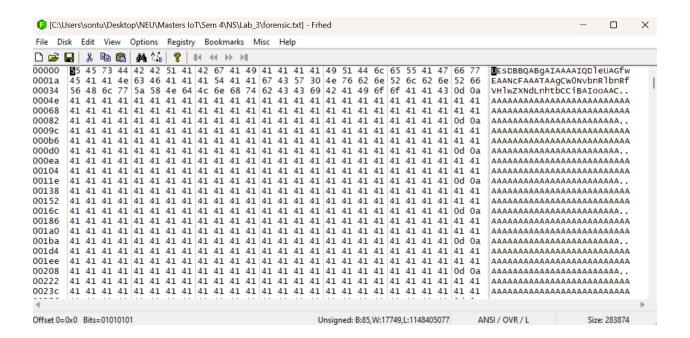
Git: https://github.com/gautamsontu/Network_Security/tree/main/Lab_3

Forensics

- 1. Neighbour's Name: Appears in the "From" field of the email i.e. "Ann Dercover."
- 2. Neighbour's Email Address: The email address is "sneakyg33k@aol.com."



- 3. Neighbour's Email Password: The password for the email is "558r00lz."
- 4. The email addresses (at least two) of the neighbour's correspondents are,
 - Correspondent's Email Addresses: <u>mistersecretx@aol.com</u>, sec558@gmail.com
 - Email of the Correspondent Most Likely to Visit: mistersecretx@aol.com
- 5. The name of the file containing the meeting location secretrendezvous.docx
- 6. To check where they are meeting,



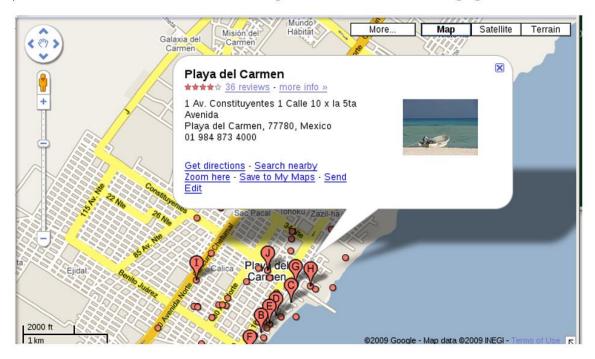
I have decoded the text using a python script,

```
import base64
with open("forensic.txt", "r") as file:
    base64_encoded_str = file.read()
base64_encoded_str = base64_encoded_str.replace("\n", "")

decoded_bytes = base64.b64decode(base64_encoded_str)

with open("decoded.docx", "wb") as file:
    file.write(decoded bytes)
```

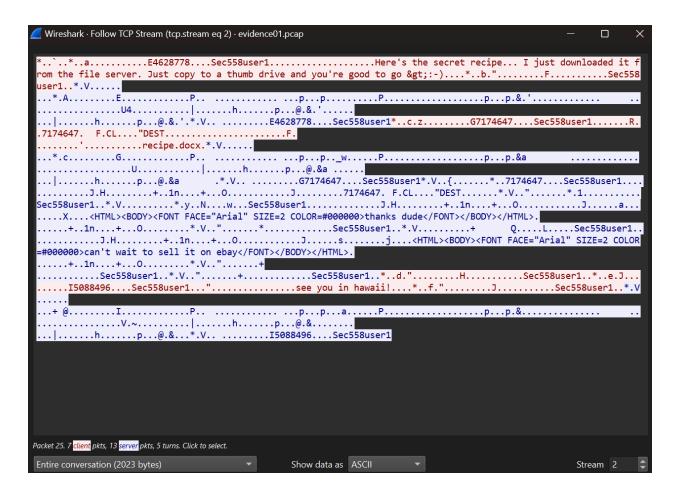
Meet me at the fountain near the rendezvous point. Address below. I'm bringing all the cash.



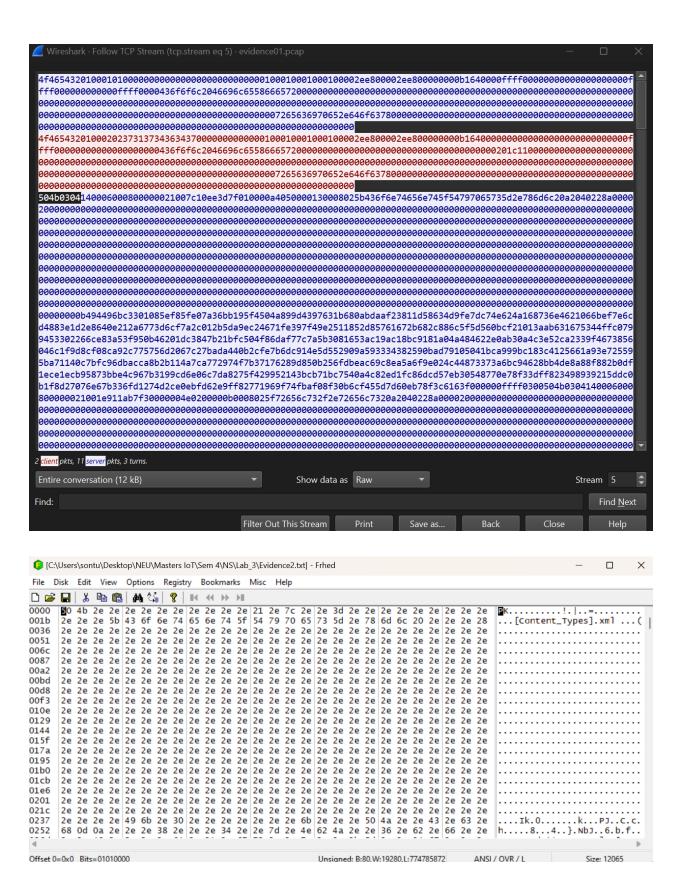
In the email, the correspondent is asking to get a **fake passport and a bathing suit**. The are meeting at **'Playa del Carmen' in Mexico**.

Evidence

- 1. Name of Ann's IM buddy: Sec558user1
- 2. Comments in the captured IM conversation:



- "Here's the secret recipe... I just downloaded it from the file server. Just copy to a thumb drive and you're good to go >:-)"
- o "thanks dude"
- o "can't wait to sell it on ebay"
- o "see you in hawaii!"
- 3. Name of the file Ann transferred: recipe.docx
- 4. The **magic number** of the file (first four bytes): **50 4B 03 04** (highlighted in the image)



Instead of ASCII, I have shown data as Raw and copied this Raw data to a file named 'EviRaw'. I have converted EviRaw to a word document called recipe.docx using a simple python script.

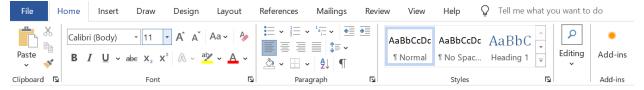
```
with open('EviRaw.txt', 'r') as file:
    hex_string = file.read()

hex_string = ''.join(hex_string.split())
binary_data = bytes.fromhex(hex_string)

with open('recipe_converted.docx', 'wb') as binary_file:
    binary_file.write(binary_data)

print("Conversion complete.")
```

5. What is the secret recipe:



Recipe for Disaster:

1 serving
Ingredients:

4 cups sugar

2 cups water

In a medium saucepan, bring the water to a boil. Add sugar. Stir gently over low heat until sugar is fully dissolved. Remove the saucepan from heat. Allow to cool completely. Pour into gas tank. Repeat as necessary.