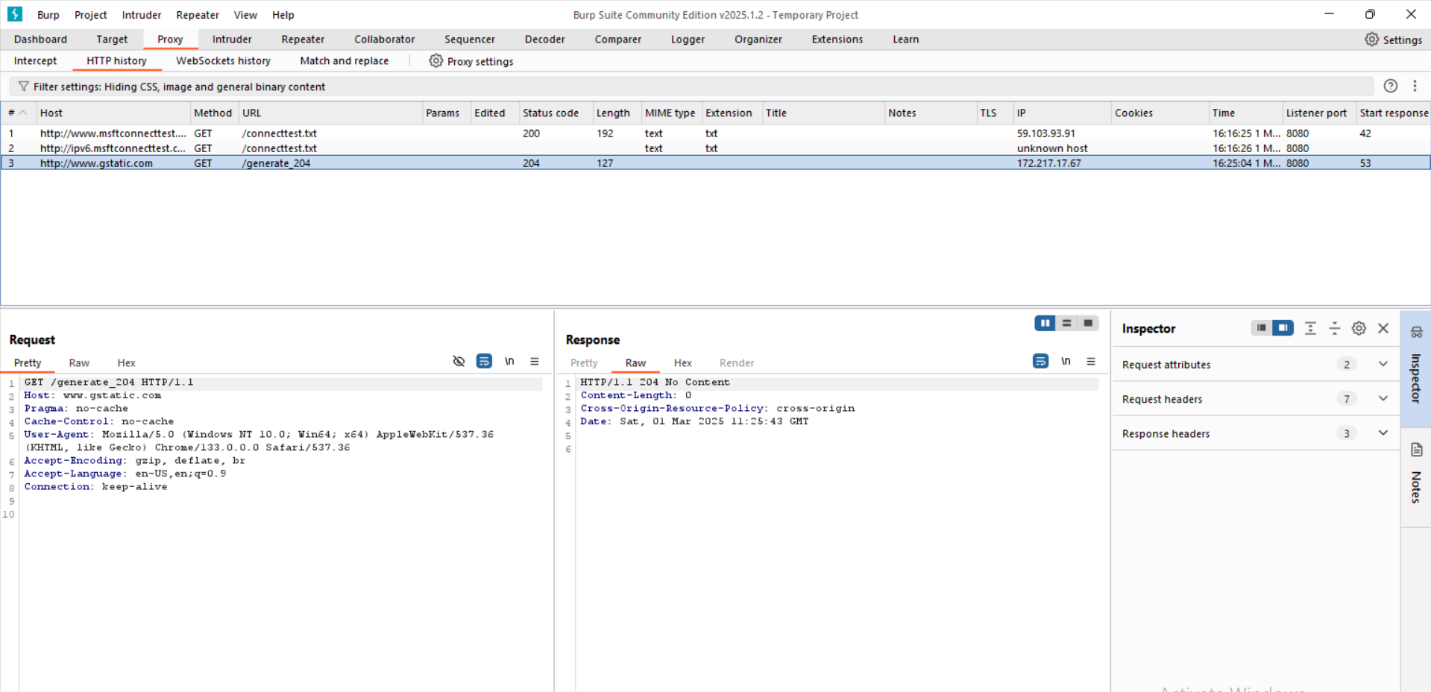
**Assignment 01**

**Zirwah Khalil Computer Networks**

**i220748 BSCS-C**

**Q1**

(1)



Request Headers:

  
Response Headers:

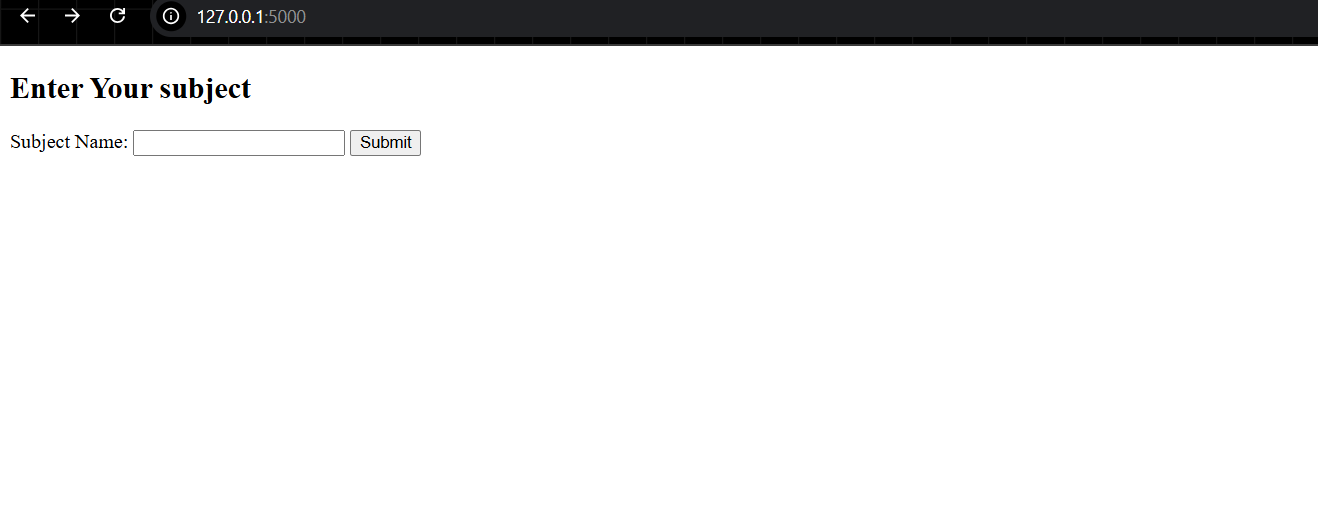
A screenshot of a computer

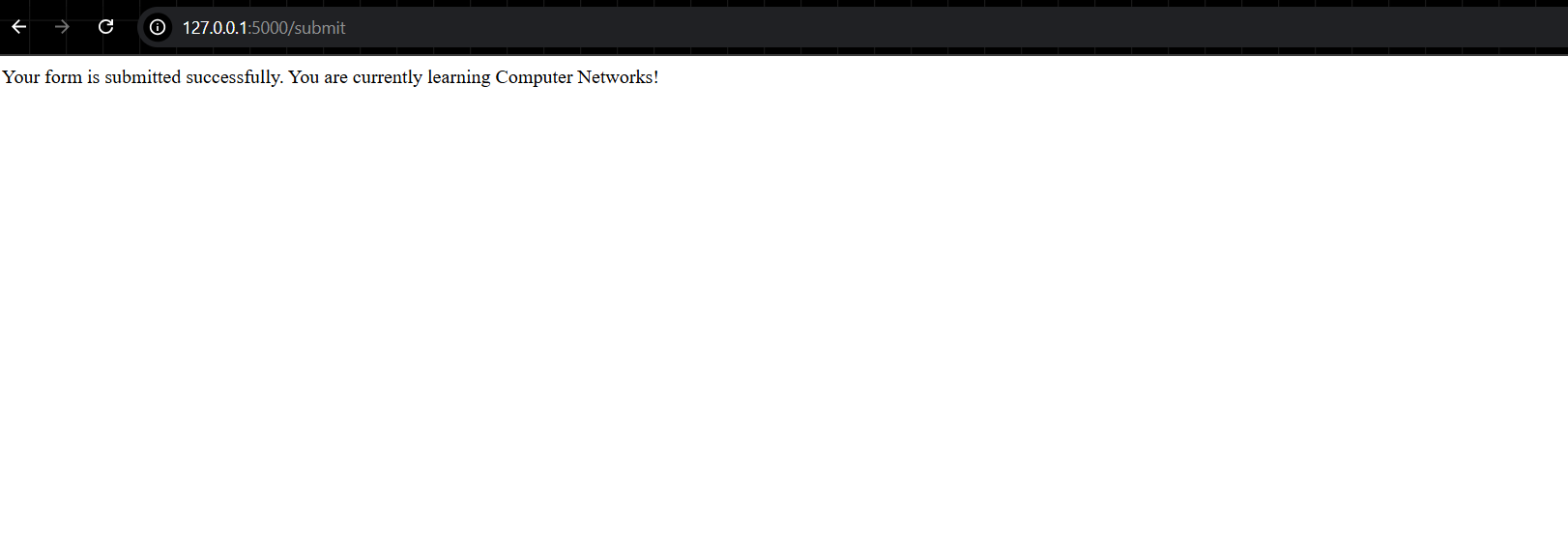
AI-generated content may be incorrect.

Security vulnerabilities: Missing HTTPS

(2)

Output:



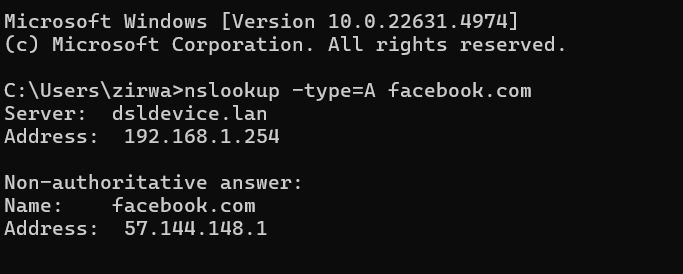
Enter the subject name in the box, then **SUBMIT**.

**Q2**

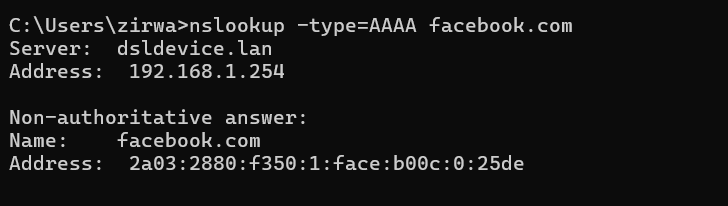
(1)

**nslookup** command run for “facebook.com”

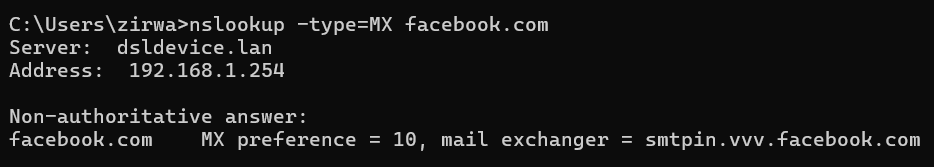
type A



Type AAAA

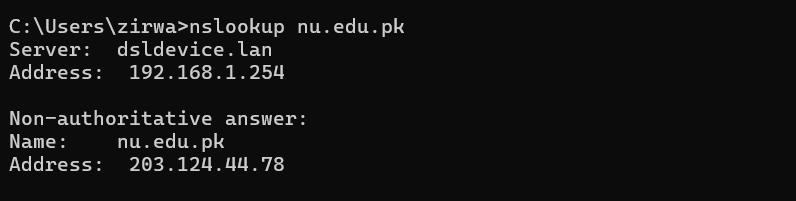


Type MX



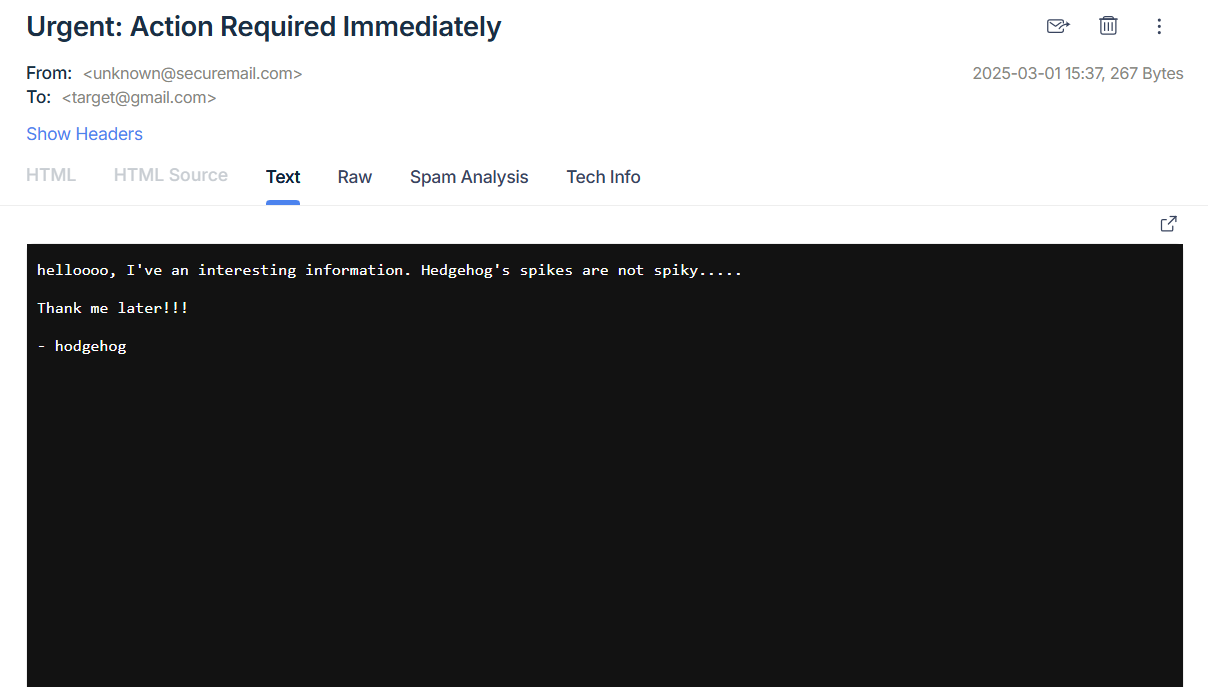
Type NS



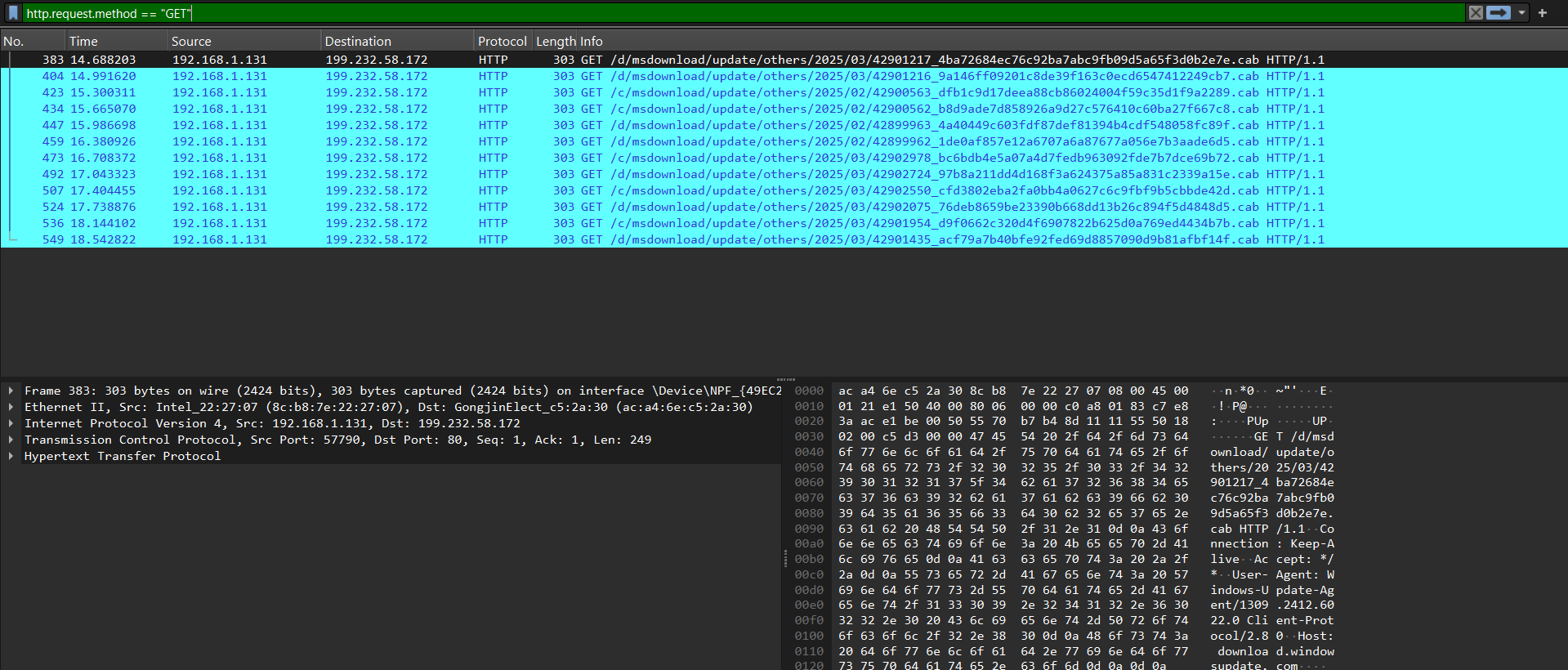
IP address of university Website  


**Q3**

Email sent to Mailtrap inbox.

****

**Q5**

(1)  


Command used to filter HTTP packets: **http.request.method == "GET"**

DNS

A screenshot of a computer

AI-generated content may be incorrect.

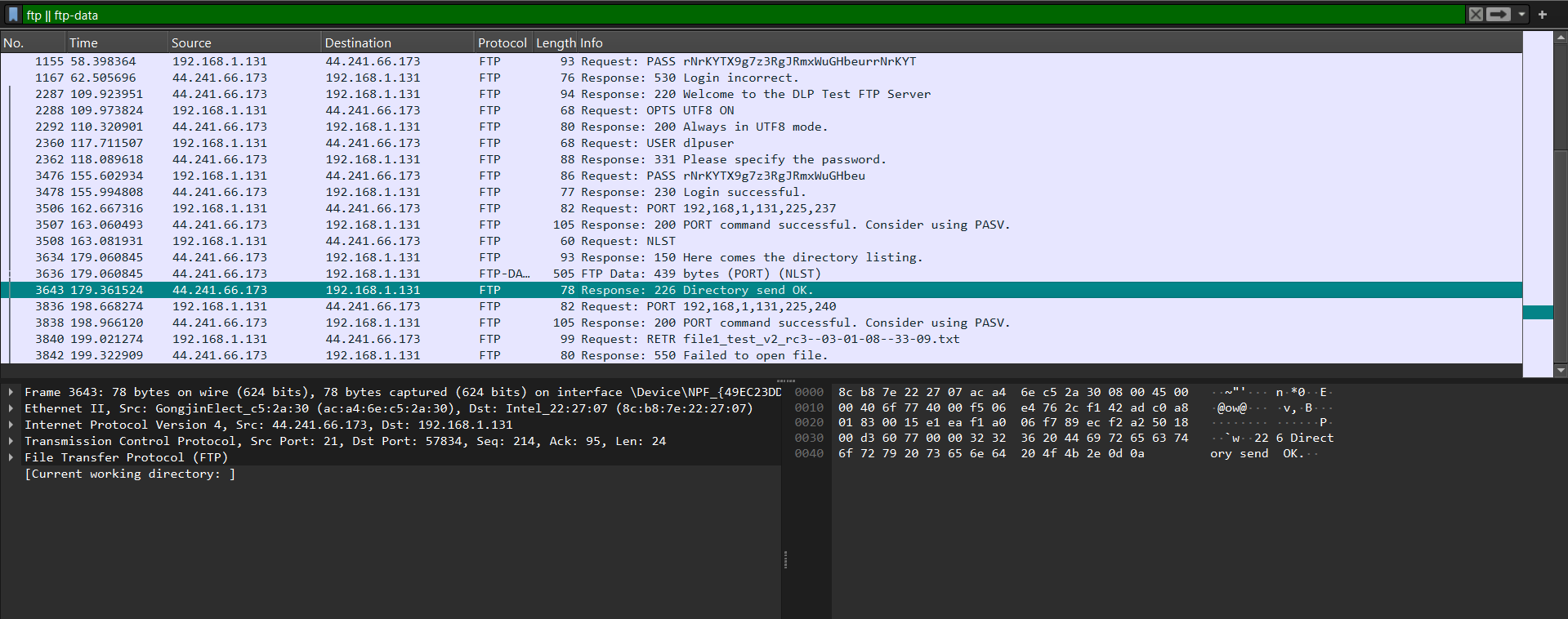
Command used to filter HTTP packets: **dns && dns.flags.response == 1**

FTP

A screenshot of a computer

AI-generated content may be incorrect.

Capturing FTP



(2) -a

Requested URL: <http://download.windowsupdate.com/d/msdownload/update/others/2025/03/42901217_4ba72684ec76c92ba7abc9fb09d5a65f3d0b2e7e.cab>

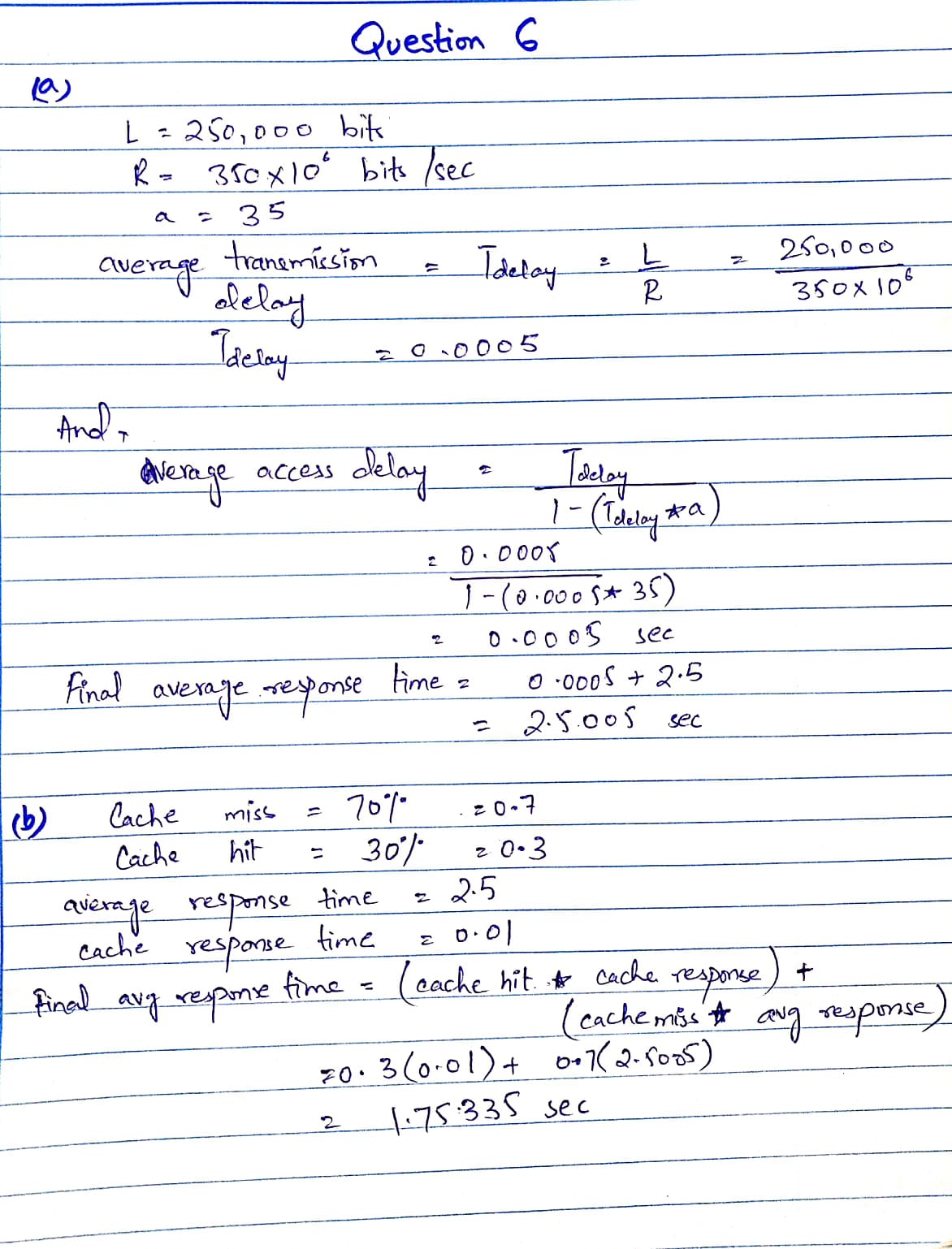
User Agent: Windows-Update-Agent  
Cookies: No cookies

(2) -b

Explanation for “How HTTPS protects sensitive data as compared to HTTP”

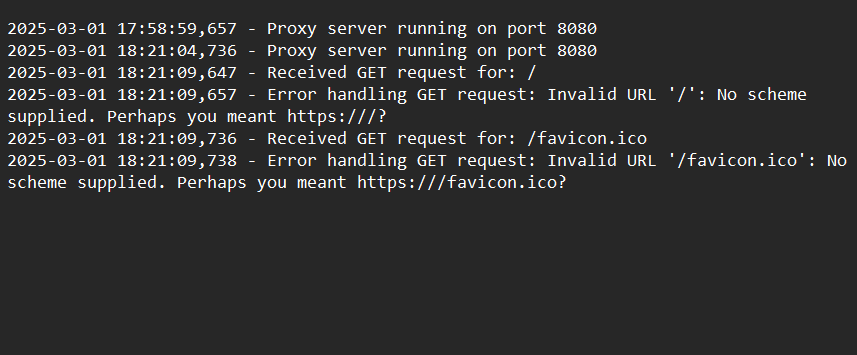
🔹 **HTTP is insecure** because data is sent in **plain text**, allowing attackers to intercept login credentials, cookies, and sensitive data.  
🔹 **HTTPS encrypts data using TLS (Transport Layer Security)**, preventing attackers from reading network traffic.

**Q6**

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Thus, the average response time has **reduced** from **2.5005** to **1.75335 seconds**.

**Q7**

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proxy.log file after running python code and searching <http://localhost:8080> on browser.