Task #01

Analyze the audio file named super_secret_audio.wav to get the flag.

Tool: spectrum analyzer

Downloading the file first then uploading it on this tool



Task #02

Analyze the file named hmmmmmmmm.pdf recover it and get the flag.

Tool: Hex Editor

When opening a PDF file in a hex editor, you will typically see the following hexadecimal signature (file magic number) at the beginning:

25 50 44 46 2D



Then save the pdf and open that pdf to get the base64 values

Use cyberchef to get the flag



Task #03

Analyze the file named DFLAB.jpg Answer these questions:

1. What is the artist's name associated with the image file?

Artist → Maaq147

```
-(kali⊕kali)-[~]
exiftool DFLAB.jpg
ExifTool Version Number
                                : 12.76
File Name
                                : DFLAB.jpg
Directory
                                : 26 kB
File Size
File Modification Date/Time
                                : 2025:03:18 03:20:58-04:00
File Access Date/Time
                                : 2025:03:18 03:21:51-04:00
File Inode Change Date/Time
                                : 2025:03:18 03:21:51-04:00
File Permissions
                                : -rw-
File Type
                                : JPEG
File Type Extension
                                : jpg
MIME Type
                                : image/jpeg
JFIF Version
                                : 1.01
                                  Big-endian (Motorola, MM)
Exif Byte Order
X Resolution
Y Resolution
Resolution Unit
                                  Maaq147
Artist
```

2. What title is given to the image file?

Title → The Tea Club Logo

```
Application Record Version : 4

XMP Toolkit : Image::ExifTool 13.10

Location : Islamabad, Pakistan

Description : This is the official logo of The Tea Club, embodying the essence of tea culture.

Title : The Tea Club Logo

Image Width : 233

Image Height : 216
```

3. Describe the content or theme of the image as given in the metadata.

Theme: This is the official logo of The Tea Club, embodying the essence of tea culture

```
Application Record Version : 4

XMP Toolkit : Image::ExifTool 13.10

Location : Islamabad, Pakistan

Description : This is the official logo of The Tea Club, embodying the essence of tea culture.

Title : The Tea Club Logo

Image Width : 233
```

4. Where is the location associated with the image according to the metadata?

Location : Islamabad, Pakistan

```
XMP Toolkit : Image::ExifTool 13.10
Location : Islamabad, Pakistan
Description : This is the official logo of The Tea Club, embodying the essence of tea culture.
Title : The Tea Club Logo
```

5. List the keywords embedded in the image metadata.

Keywords : tea, culture, club, logo

```
Copyright : Copyright 2025 Maaq147
Current IPTC Digest : 1cb824a92fb666d88f2c9e459f582c79
Keywords : tea, culture, club, logo
Application Record Version : 4
XMP Toolkit : Image::ExifTool 13.10
```

6. Extract and provide the hidden flag embedded in the image. What is the method to uncover it?

Using the command steghide

Flag: DFLAB{Chai_Chahiye!_Konsi Janab?}

```
(kali@ kali)-[~]
steghide extract -sf ~/DFLAB.jpg

Enter passphrase:
wrote extracted data to "flag.txt".

(kali@ kali)-[~]
stephide extracted data to "flag.txt".

DFLAB{Chai_Chahiye!_Konsi Janab?}
```