

EXPERIMENT-09**Aim:**

To study the steps for hiding and extract any text file behind an image file/ Audio file using Command Prompt.

Here is the procedure and result for Experiment 9 (Steps for Hiding and Extracting Text File behind an Image or Audio File using Command Prompt):

Procedure:**1. Preparation:**

- Copy the text file you want to hide (e.g., A.txt) and the image file (e.g., B.jpg) to the Desktop for easy access.

2. Open Command Prompt: ○ Press Win + R, type cmd, and press Enter. ○ Change directory to Desktop by typing:

```
text cd
Desktop
```

3. Hide Text inside Image:

- Use the binary copy command to merge the text file with image file:

```
text
copy /b B.jpg + A.txt C.jpg
```

- This command creates C.jpg, the image file with the hidden text embedded.

4. Retrieve Hidden Text:

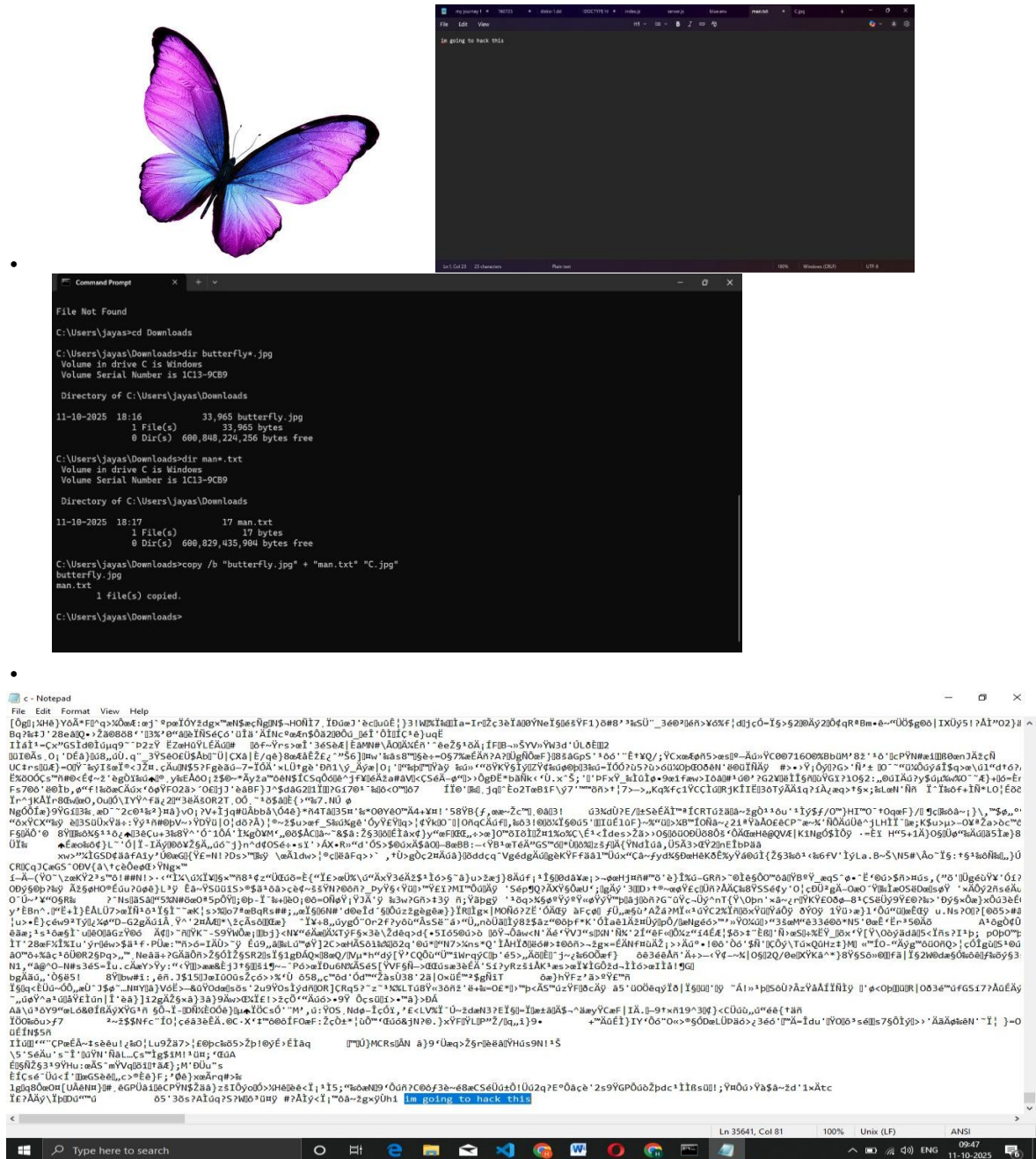
- Locate the merged file C.jpg. ○ Right-click on C.jpg and open it with Notepad. ○ Scroll to the very bottom of the file in Notepad to see the hidden text from A.txt.

Alternative: Hide any File behind Audio

- If you want to hide a ZIP or other file behind an audio file (e.g., sound.mp3 and secret.zip), use:

```
text copy /b sound.mp3 + secret.zip
newfile.mp3
```

- To retrieve the hidden file, rename `newfile.mp3` back to `.zip` or open it with an archive tool.



The image shows a Windows File Explorer window displaying the contents of the `C:\Users\jays\Downloads` directory. The files listed are `butterfly.jpg` (33,965 bytes) and `man.txt` (17 bytes). Below the File Explorer is a Windows Command Prompt window showing the execution of the following commands:

```

C:\Users\jays>cd Downloads
C:\Users\jays\Downloads>dir butterfly.jpg
Volume in drive C is Windows
Volume Serial Number is 1C13-9CB9

Directory of C:\Users\jays\Downloads

11-10-2025  18:16                33,965 butterfly.jpg
               1 File(s)                33,965 bytes
               0 Dir(s) 600,848,224,256 bytes free

C:\Users\jays\Downloads>dir man.txt
Volume in drive C is Windows
Volume Serial Number is 1C13-9CB9

Directory of C:\Users\jays\Downloads

11-10-2025  18:17                 17 man.txt
               1 File(s)                 17 bytes
               0 Dir(s) 600,829,435,904 bytes free

C:\Users\jays\Downloads>copy /b "butterfly.jpg" + "man.txt" "C.jpg"
butterfly.jpg
man.txt
               1 File(s) copied.

C:\Users\jays\Downloads>

```

Below the Command Prompt is a Notepad window showing a large block of text, which appears to be a base64-encoded file. The text is a mix of letters, numbers, and symbols, and is likely the hidden content of the `man.txt` file.

Result:

- The text file was successfully hidden within the image file without altering the visible content.
- The hidden data could be retrieved by opening the merged file in a text editor.
- This basic steganography technique demonstrates how files can be concealed in multimedia content for confidentiality or forensic challenges.

