

BABU BANARASI DAS UNIVERSITY



SCHOOL OF ENGINEERING

Department of Computer Science & Engineering

PRIVACY AND SECURITY IN IOT LAB (ITBC3751)

Session 2025-26

PRACTICAL LAB FILE

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1.	Open Stego Steganography		

Practical 1

Practical: Using OpenStego for Steganography

Definition : OpenStego is a free tool that lets you hide secret information inside another file (like hiding text inside an image) and later take it out when needed.

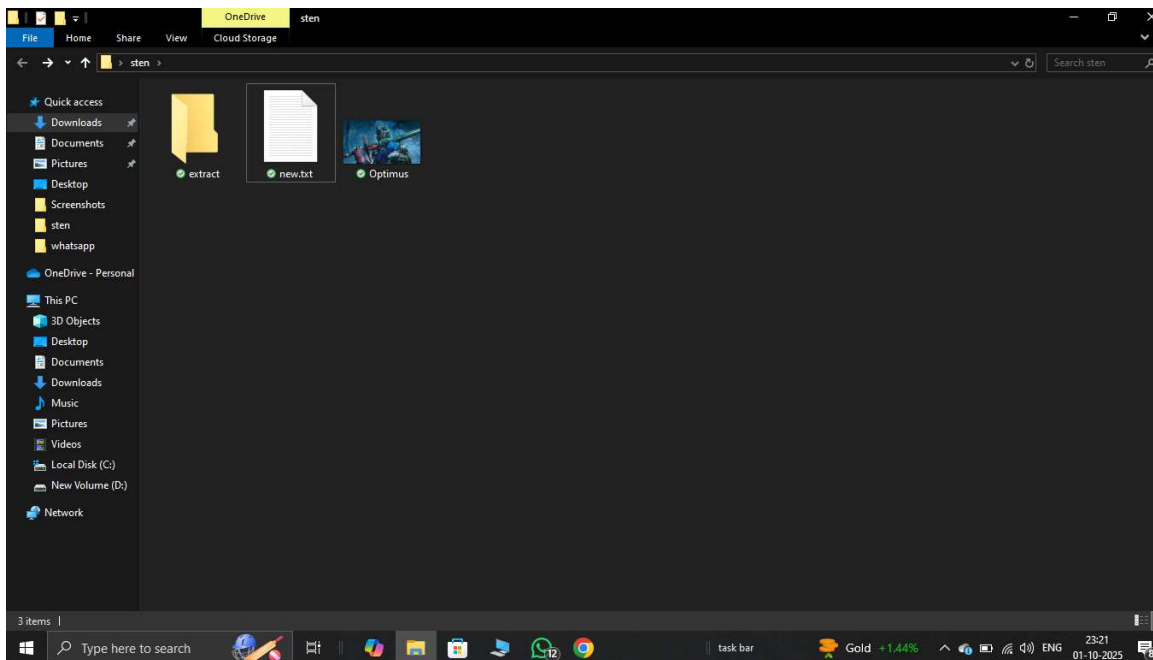
Tools :

- OpenStego software
- Sample cover files (image)
- Text files containing secret messages

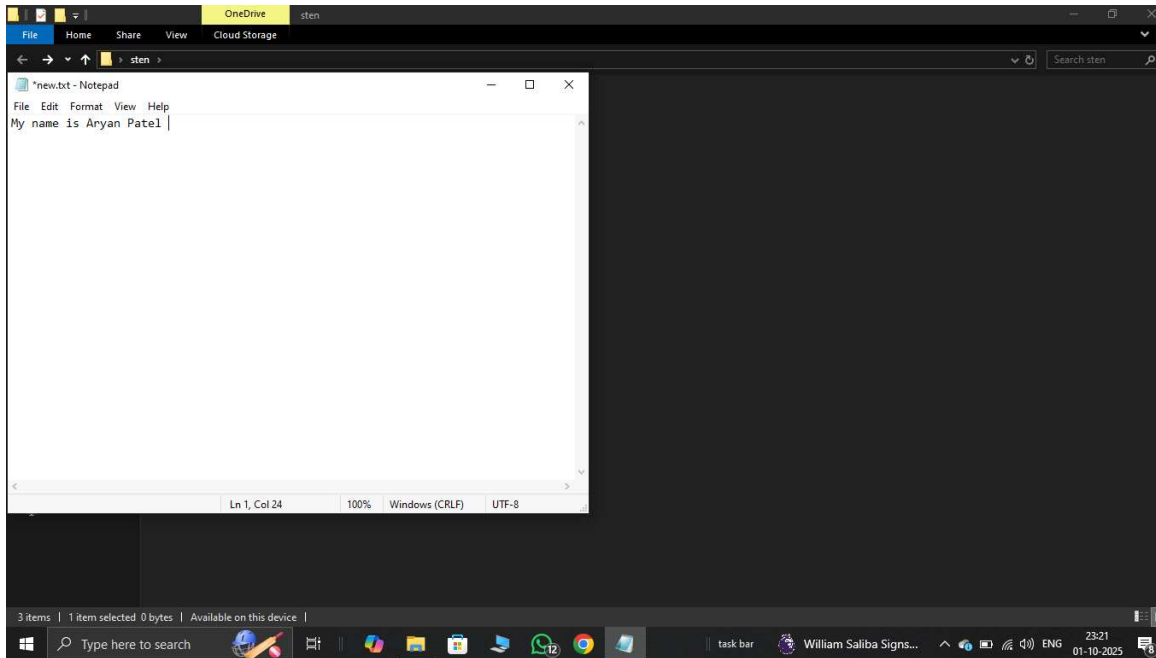
Step 1 : Create a new folder .



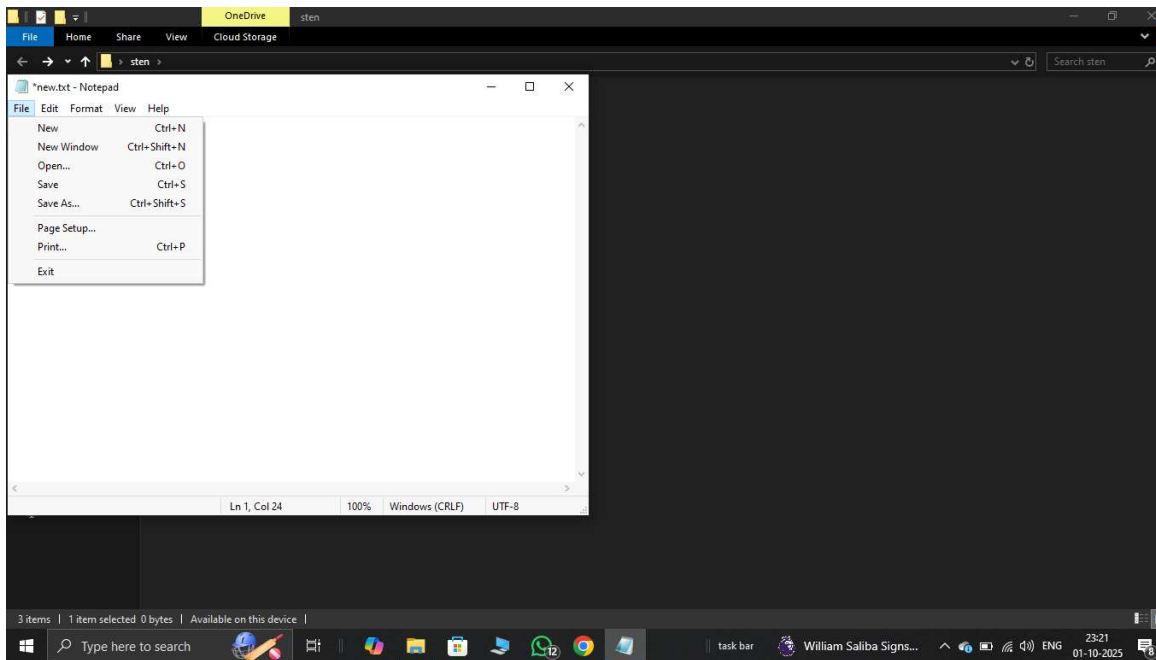
Step 2 : Now add a picture to the folder you created, place a text file in it, and also create a new folder where you want to see the output.



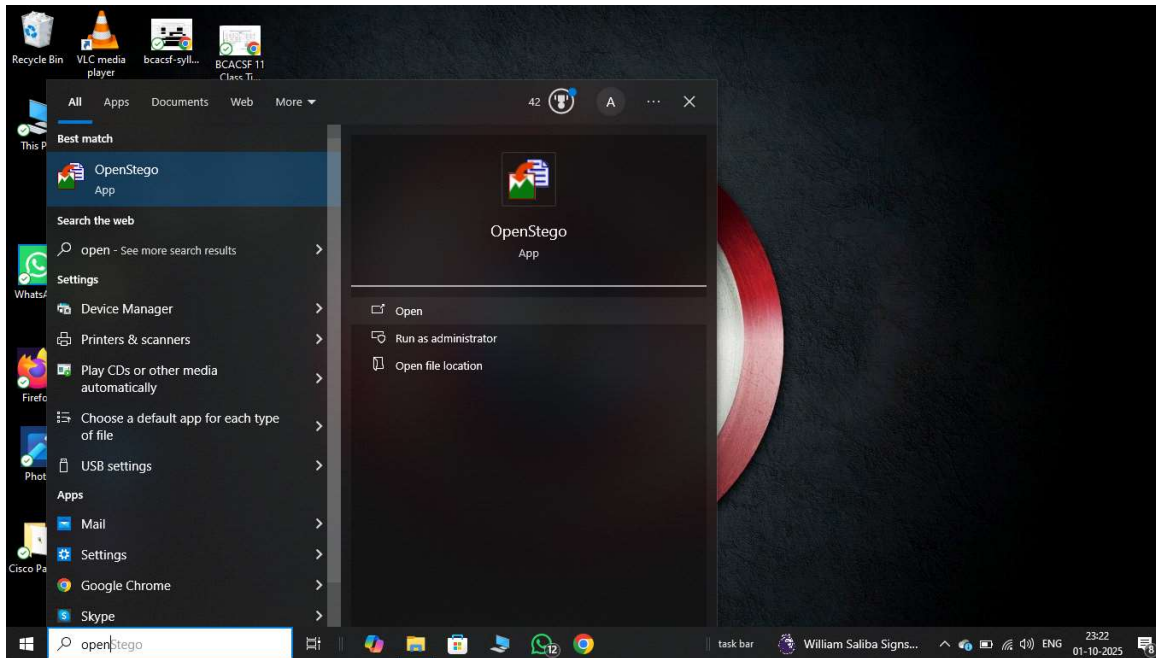
Step 3 : Now write in the text file the text that you want to hide.



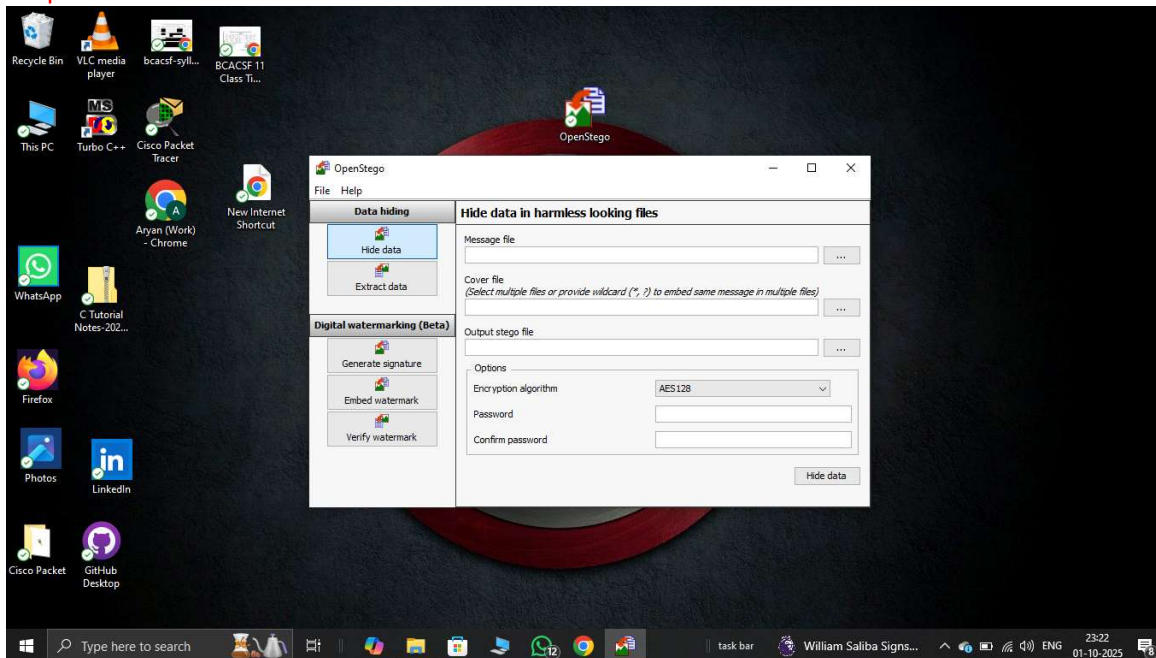
Step 4 : And save the text file .



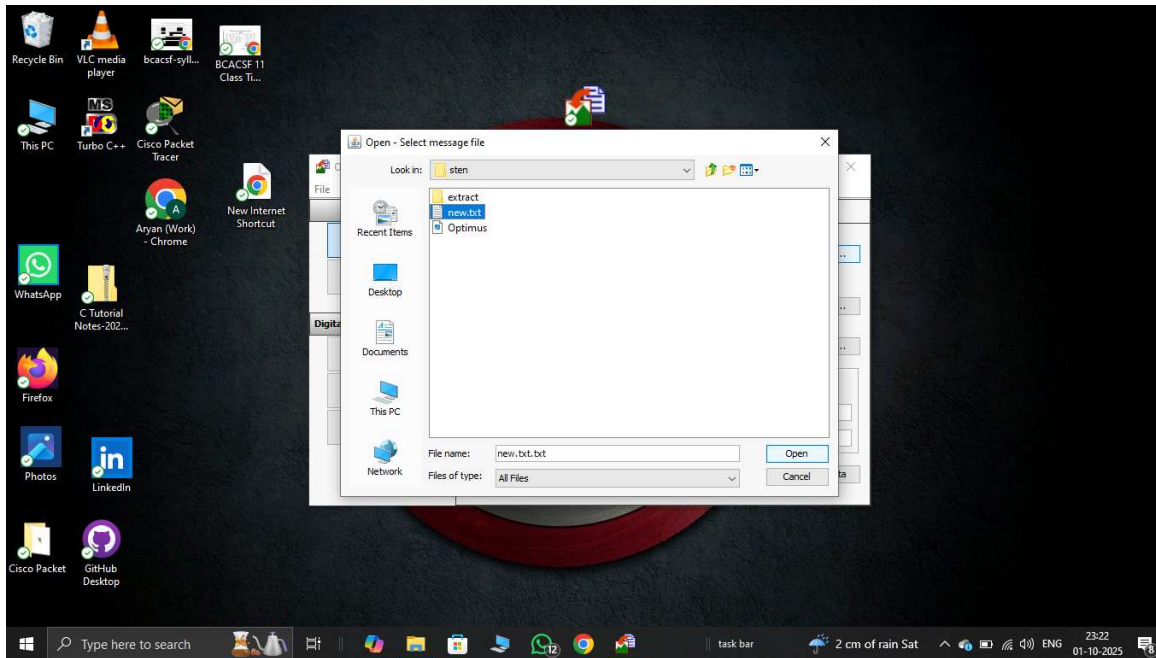
Step 5 : Go to search bar and search for **OpenStego** and then open it .



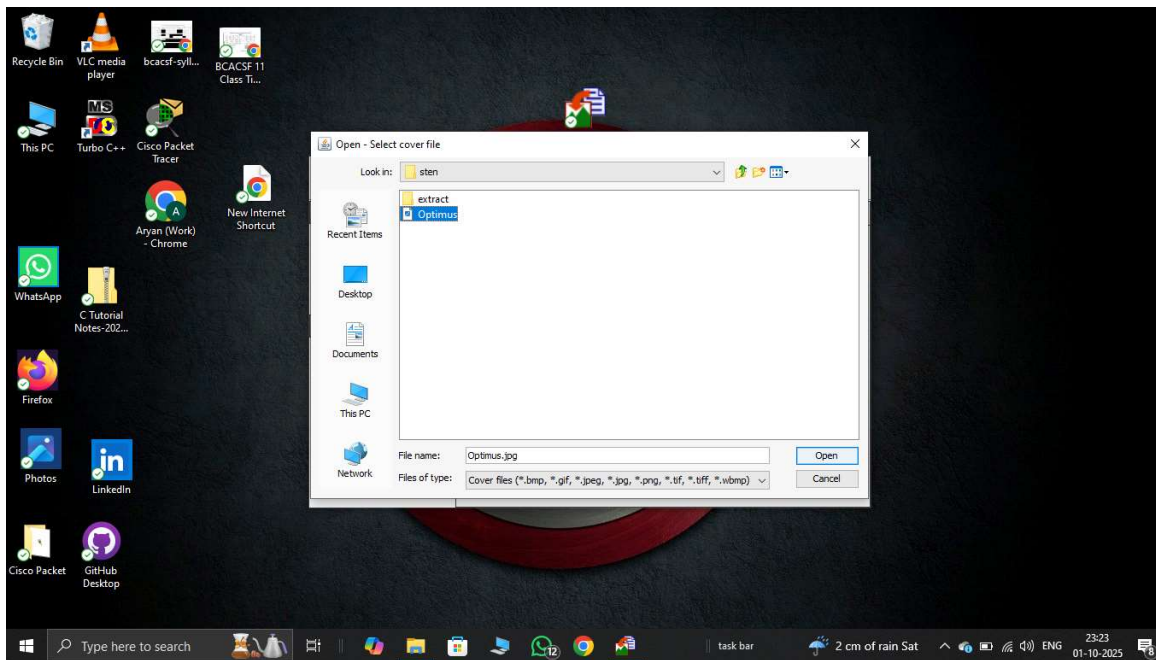
Step 6 : Now OpenStego is open, and we will put content into the **message file** , **cover file** and **output file**.



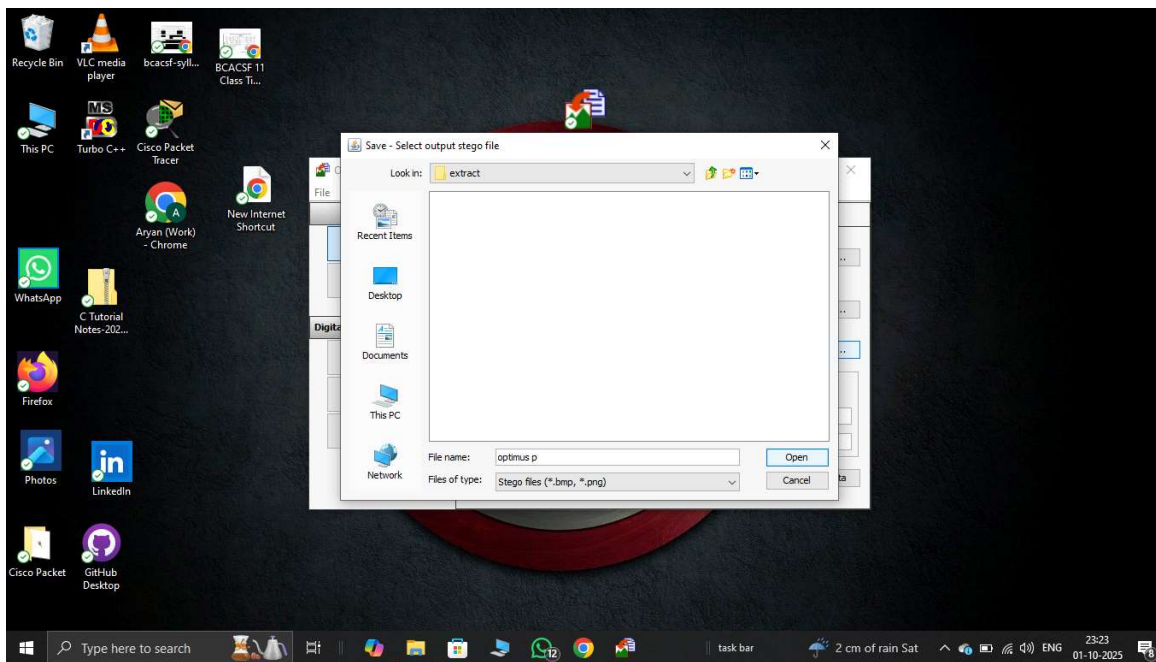
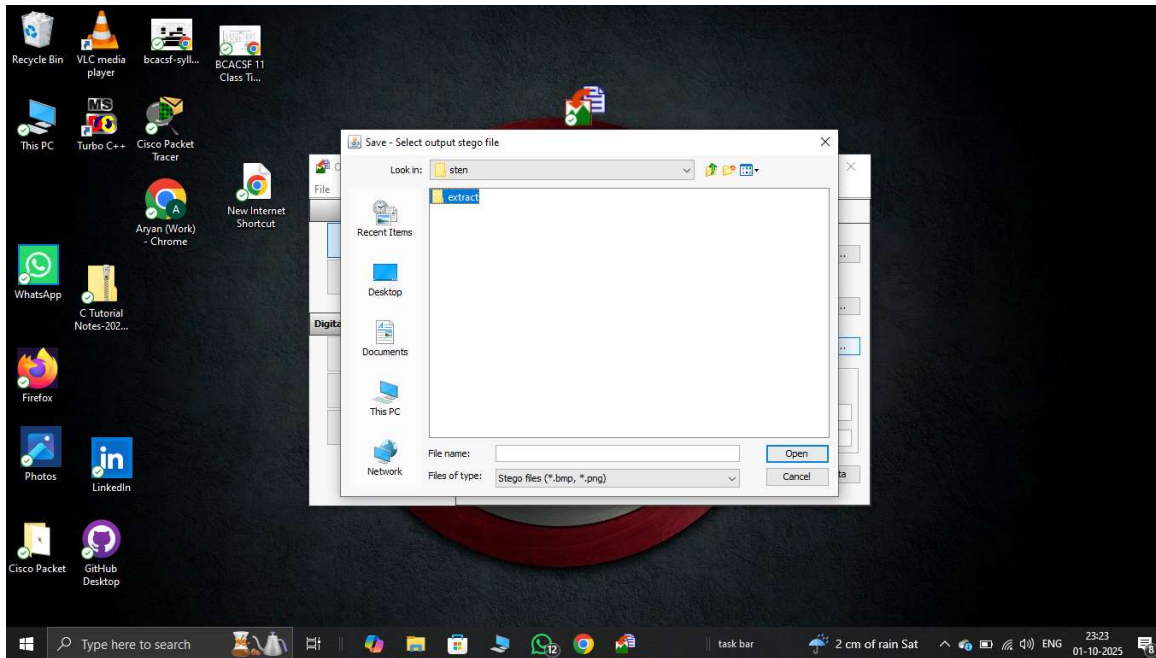
Step 7 : And now in **message file** , select the **text file that you want to hide** and open it.



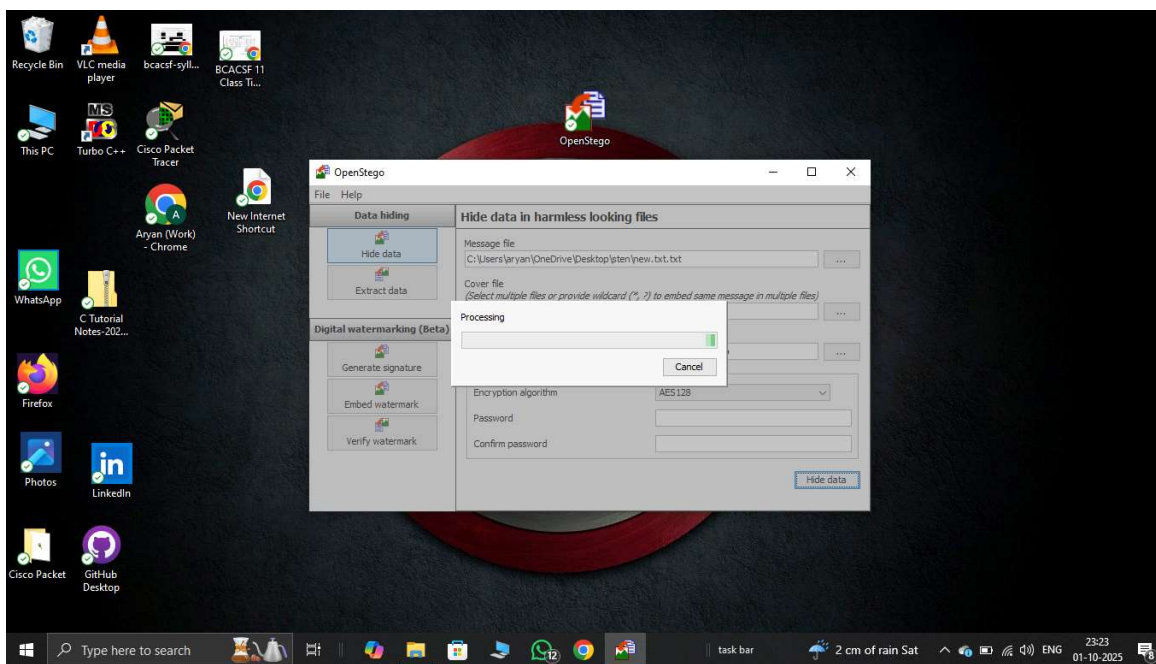
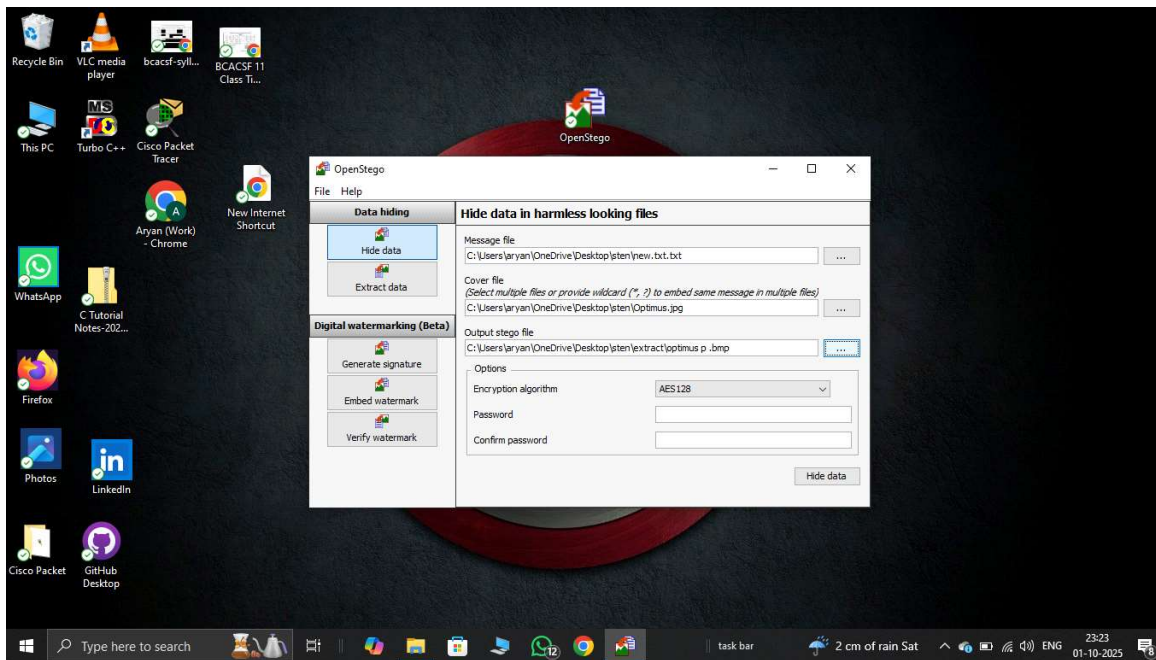
Step 8 : now in cover file , select the **cover file** (picture)



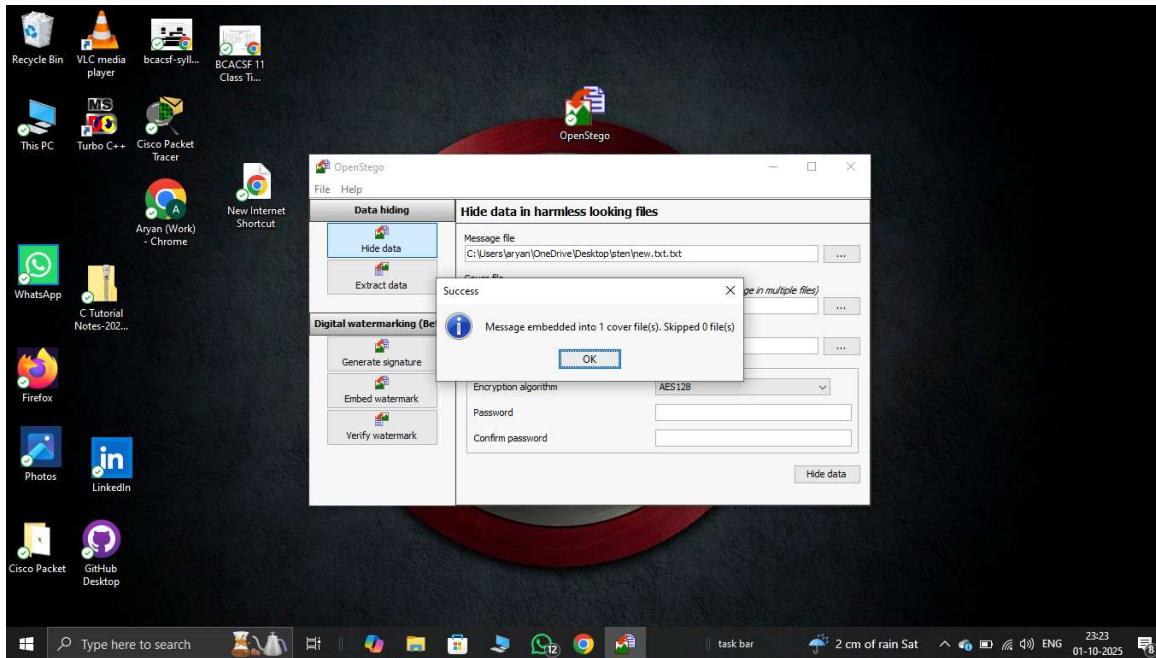
Step 9 : And now, for the output, **open the Extract folder** and in it write **Optimus P** as the file name , this is where the output will appear in the picture.



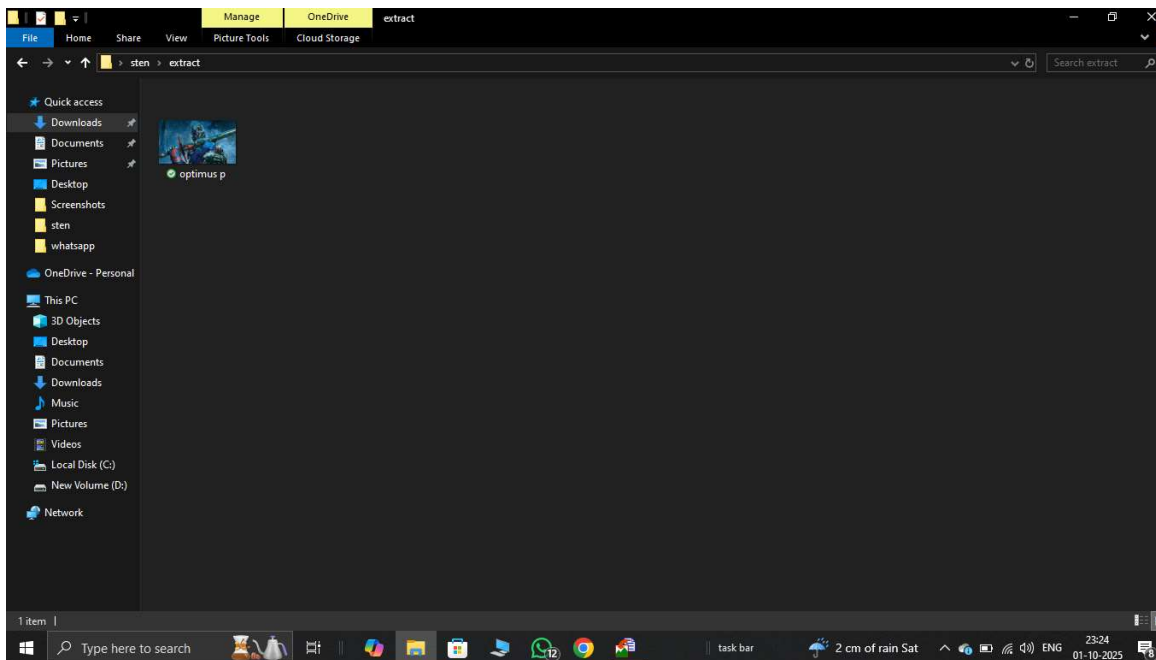
Step 10 : Now this is complete and we will hide the data.

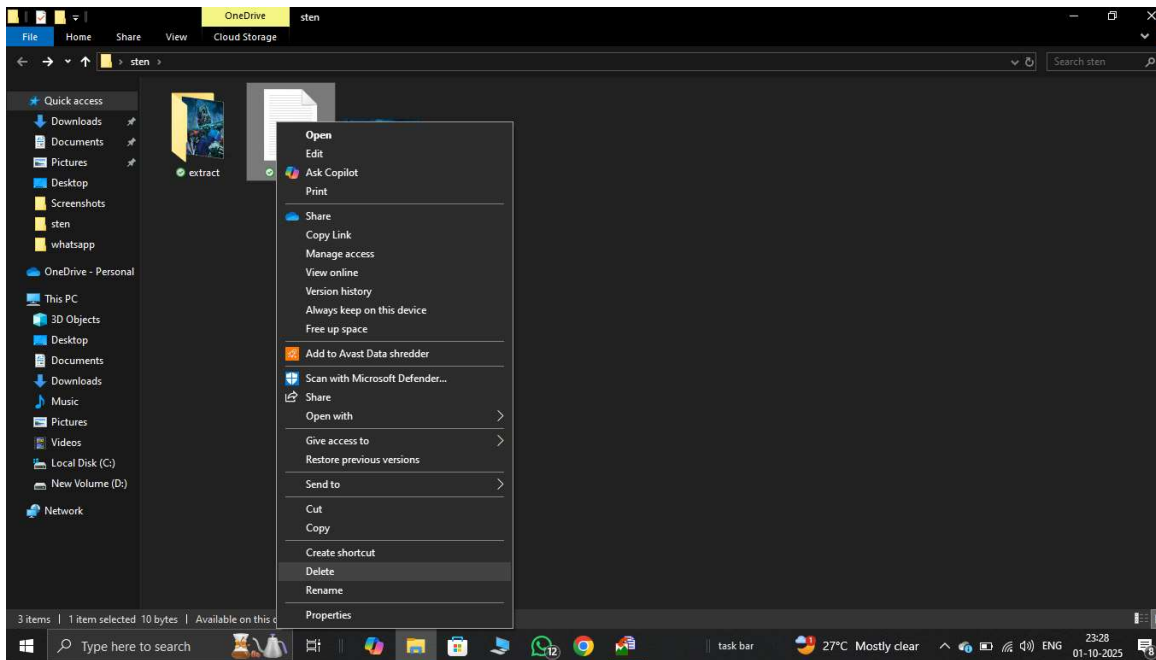


Step 11 : And now the data has been successfully hidden.

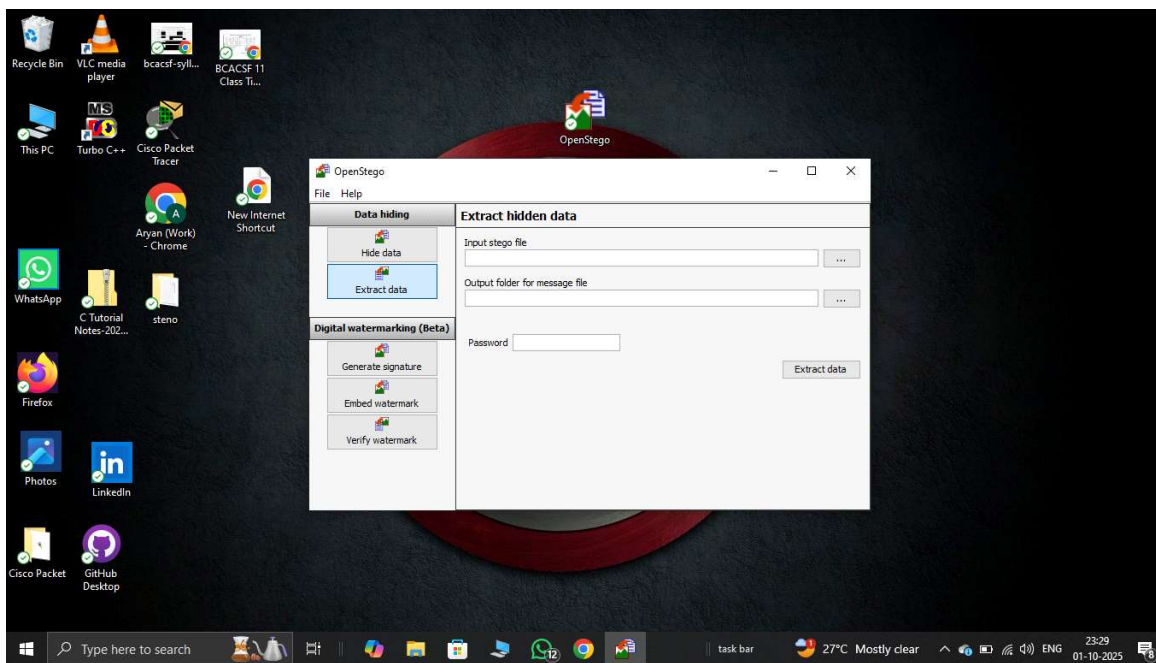


Step 12: After hiding the data, a picture named Optimus P has appeared in the Extract folder, which contains the hidden data. And if we want, we can also delete the original file that has hidden data

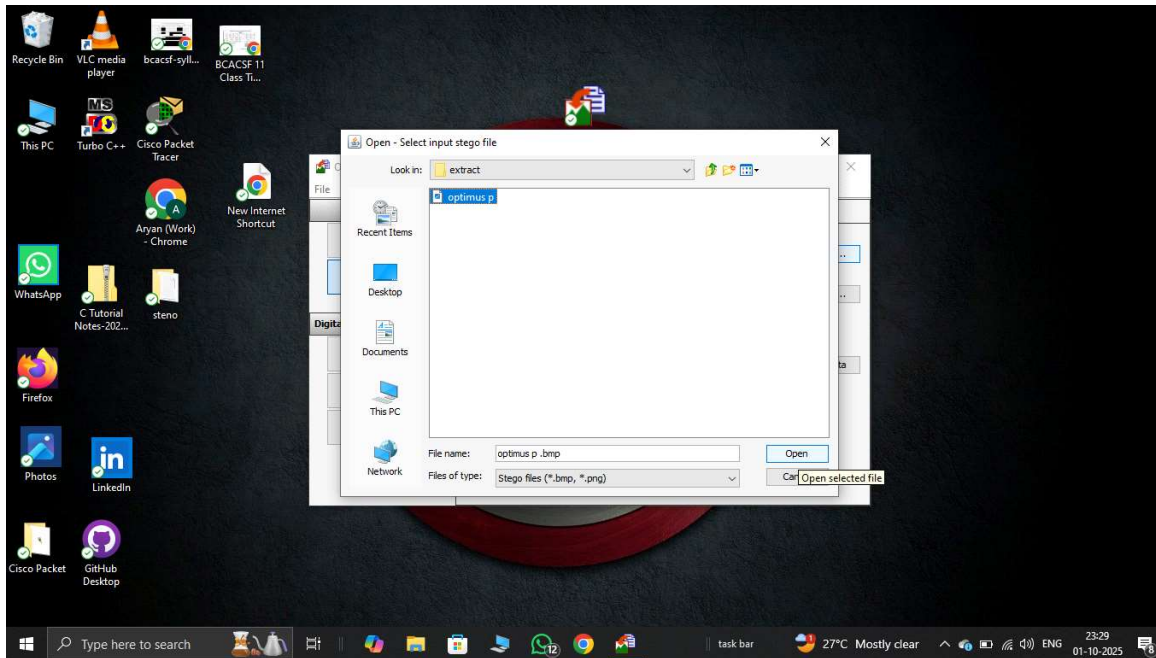




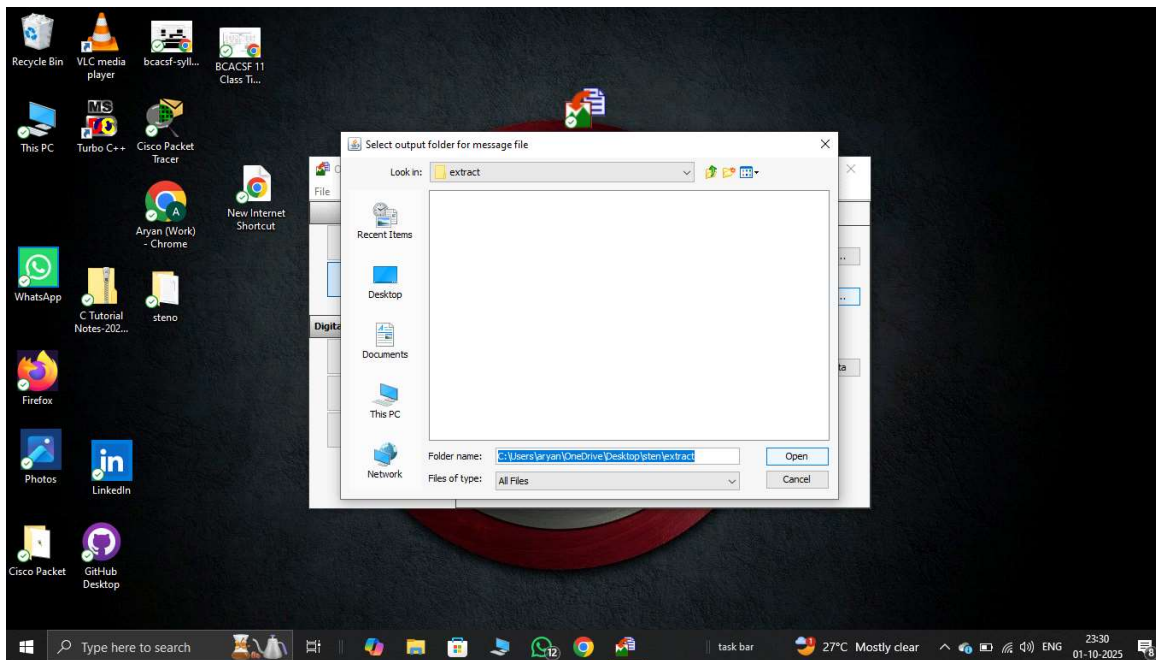
Step 13 : Now we will check the data that was hidden to see if it has been hidden correctly.



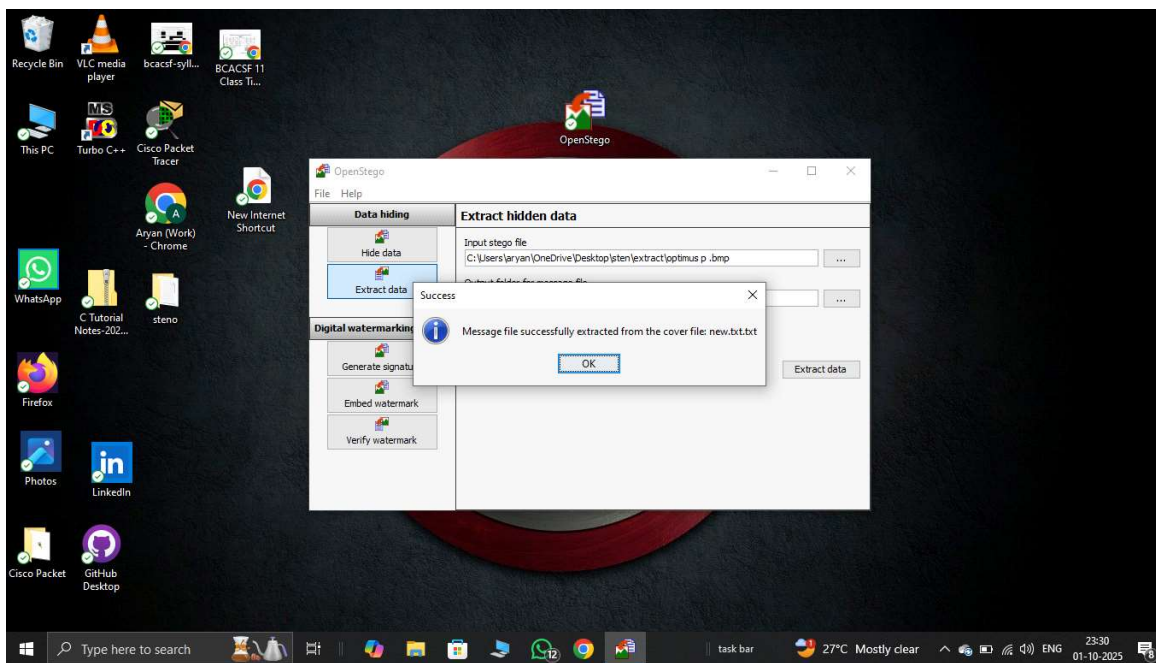
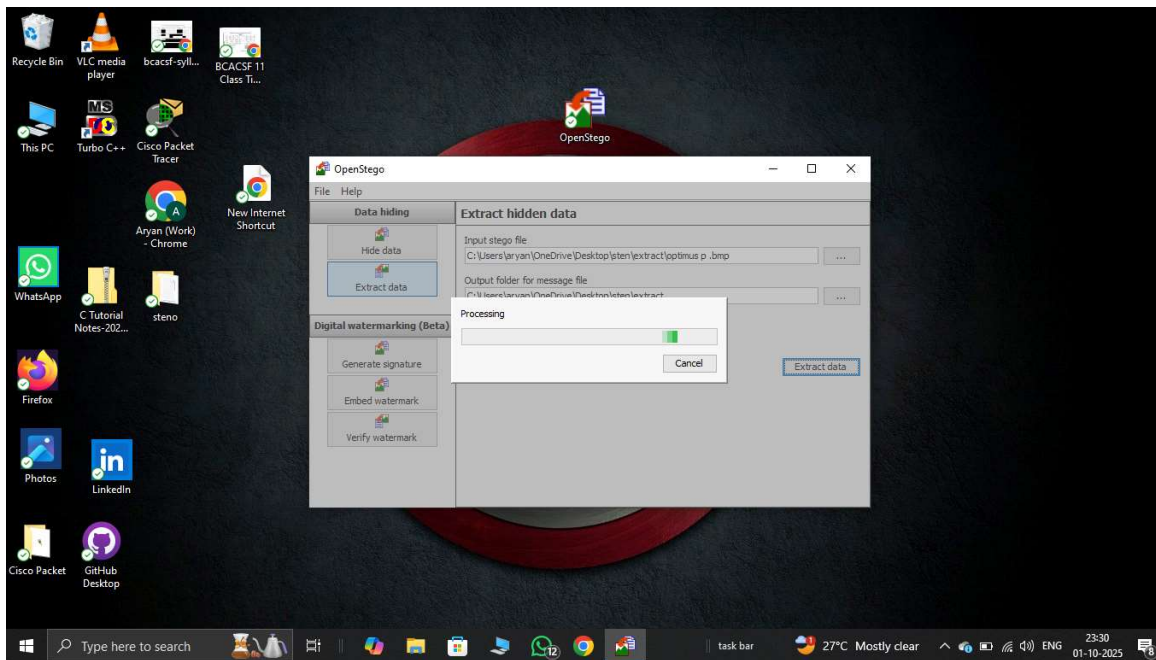
Step 14 : And now, by opening the **Input Stego File option**, we will go to the Extract folder, select the picture named **Optimus P**, and open it.



Step 15 : Now, by opening the **Output Folder for Message File** option, we will select the Extract folder and open it .



Step 16 : After this, we will select **Extract Data** , and once the processing is done, a **Success pop-up will appear**.



Step 17 : After success, a file named **new.txt** will appear and the hidden data will appear in it. When we open it, the text that we had **hidden will be visible to us again**.

