Digital Forensics

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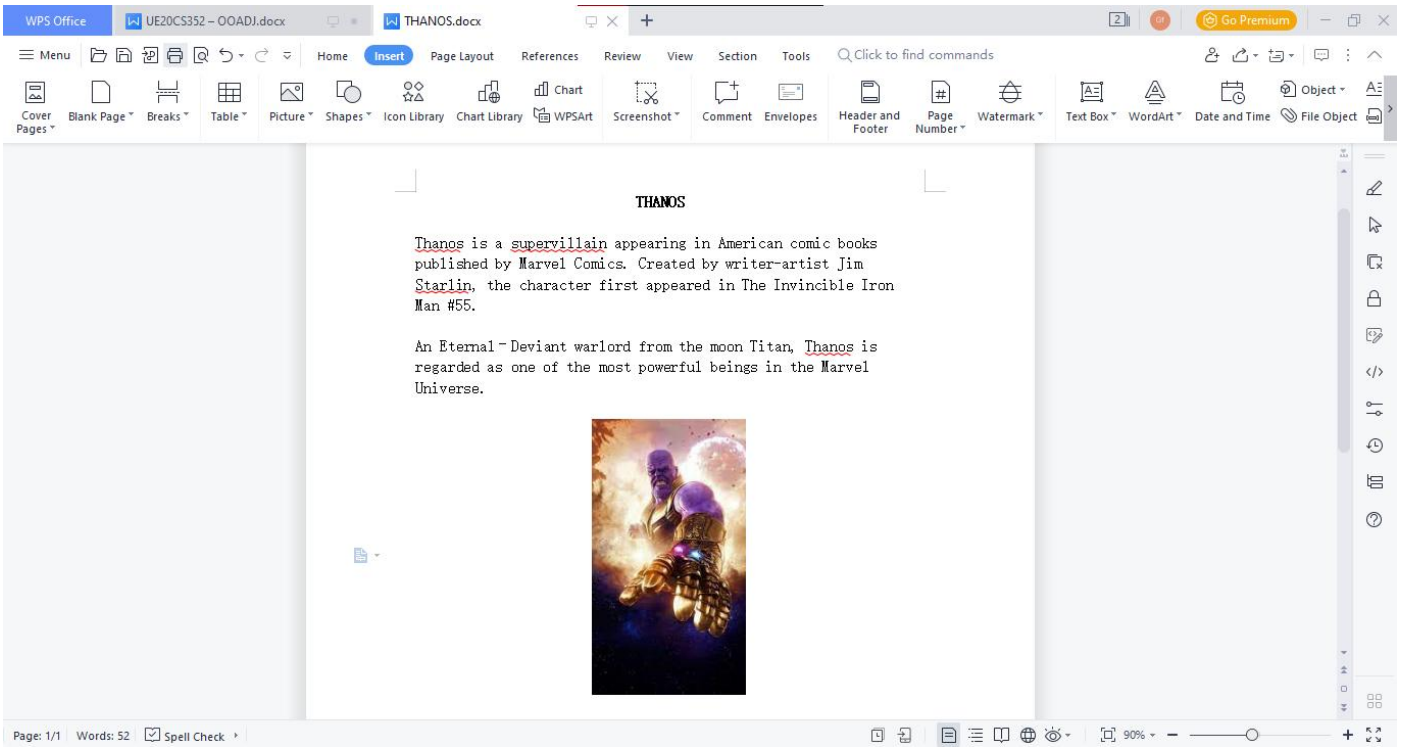
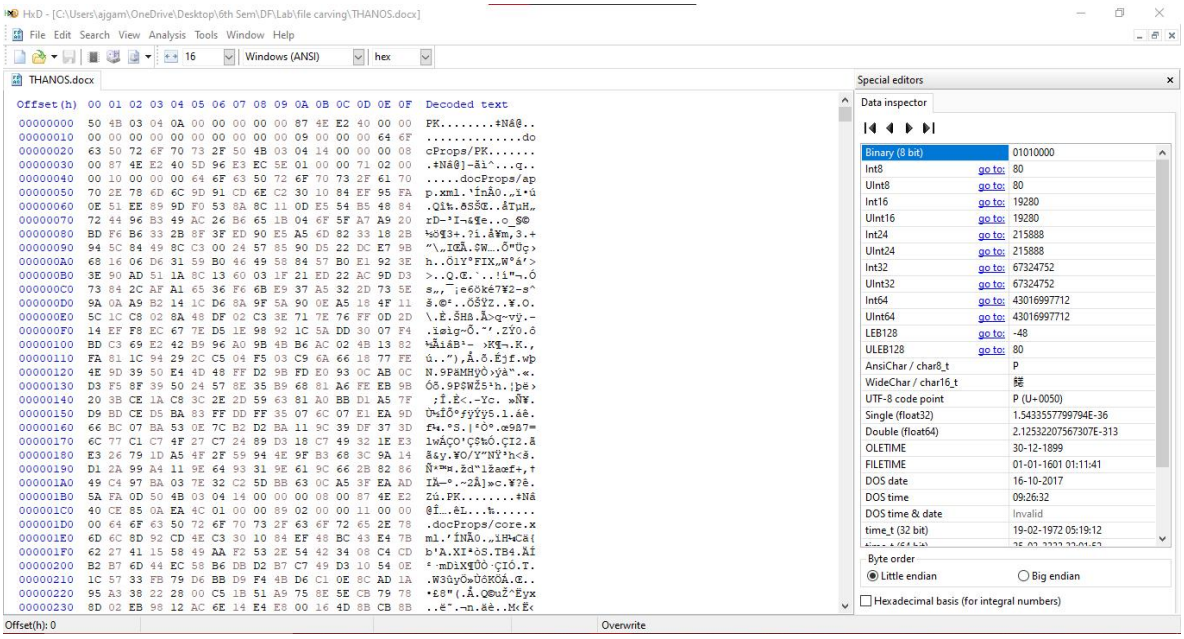
Lab Assignment

CARVE A FILE WITHOUT USING A CARVING TOOL AND WITH A CARVING TOOL

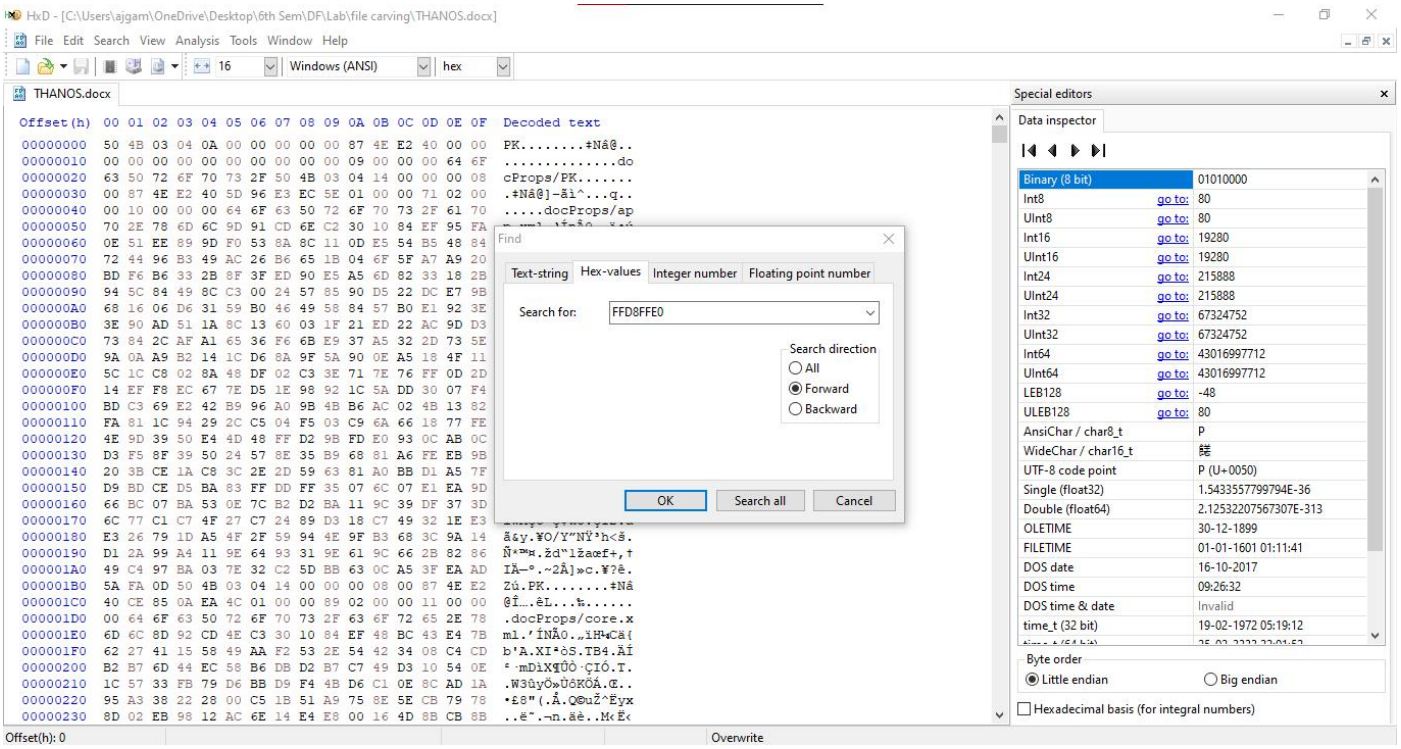
- DOCX File Created



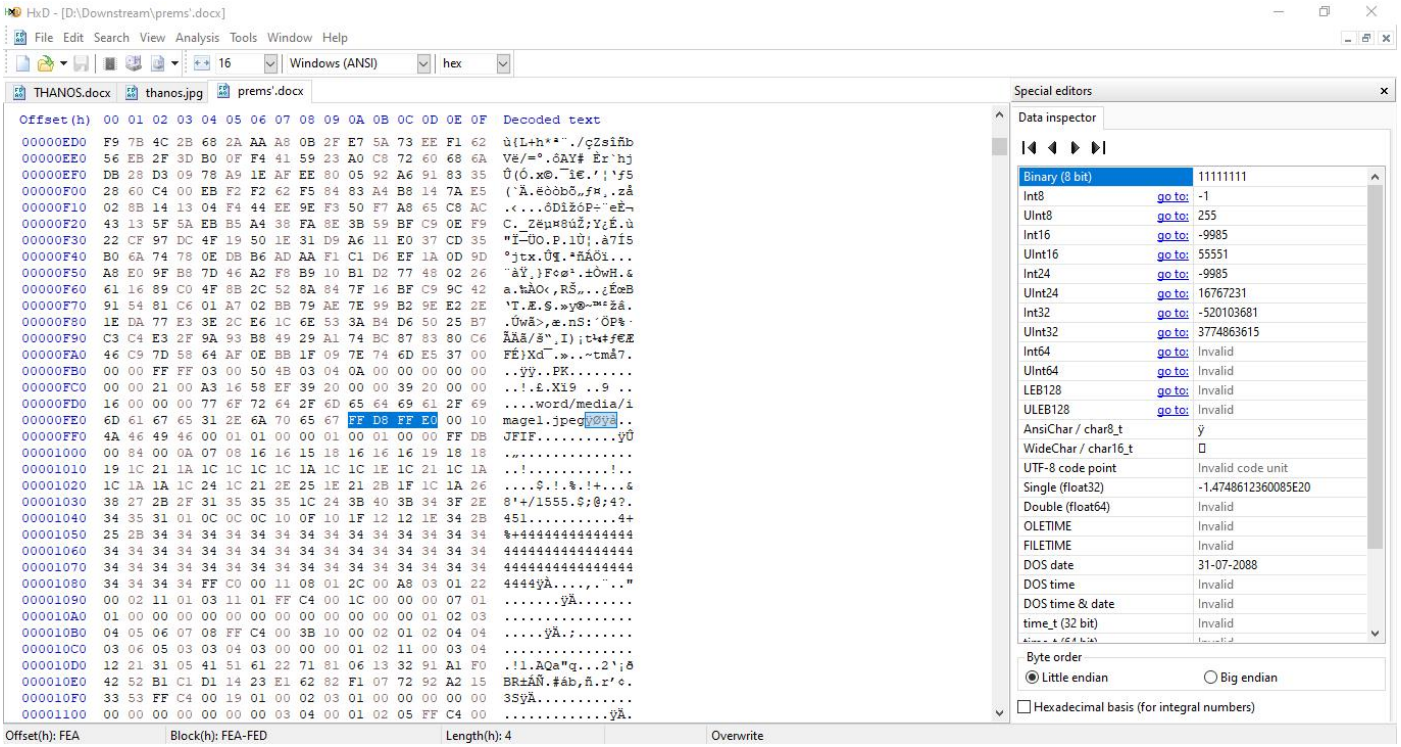
- First opened Hex editor and opened this word file with hex editor:



- In the above figure, we can see the raw hexadecimal data that forms the Word document. Within this block of raw data, we can search for the JPG file signature to show us the location of the first JPG image. As we already know, any JPG file starts

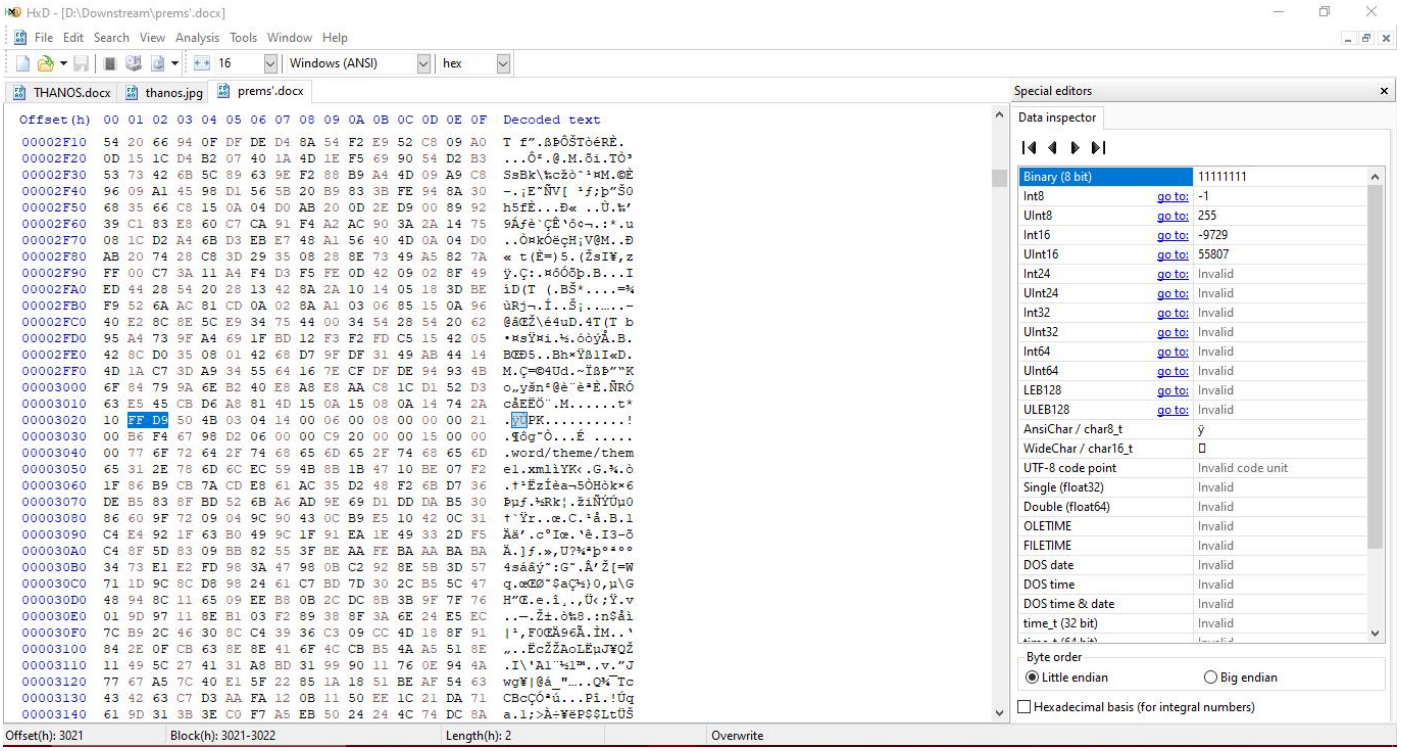


- We got the OFFSET where the image starts



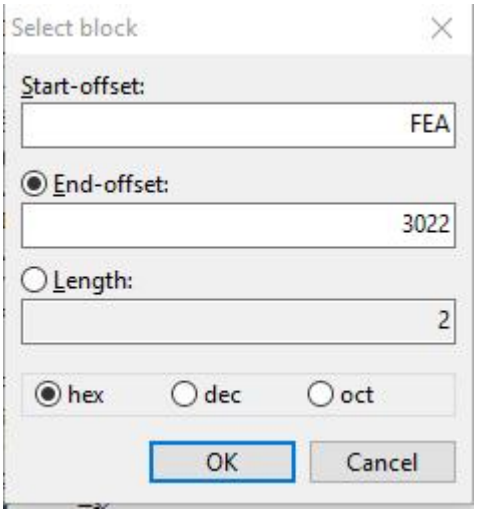
OFFSET : Offset(h): FEA

- So now that we have our file header, we need to find the file trailer.

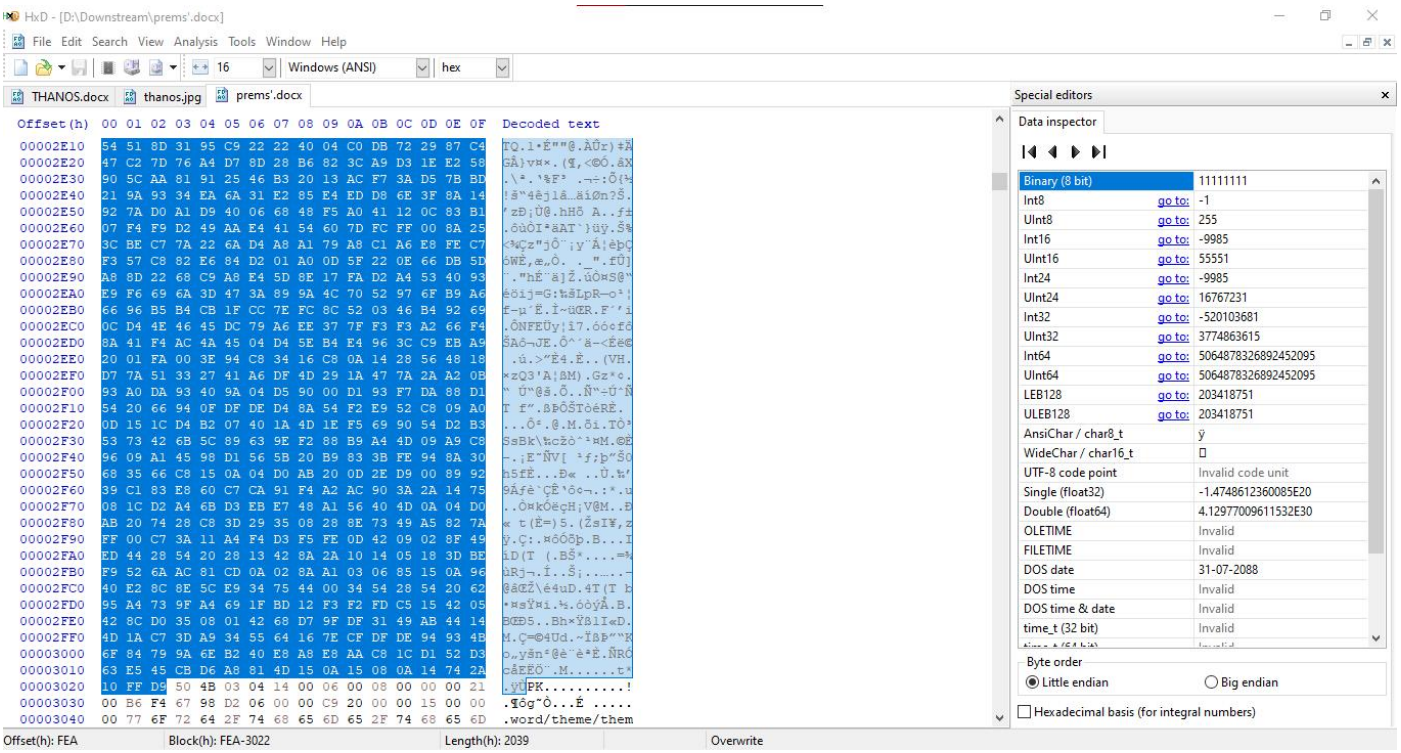


- Now we have the header and trailer of a jpeg file and, as we previously said, between the header and trailer is the data of a jpeg file. Now we copy the whole block of data with header and trailer and store it as a new file.

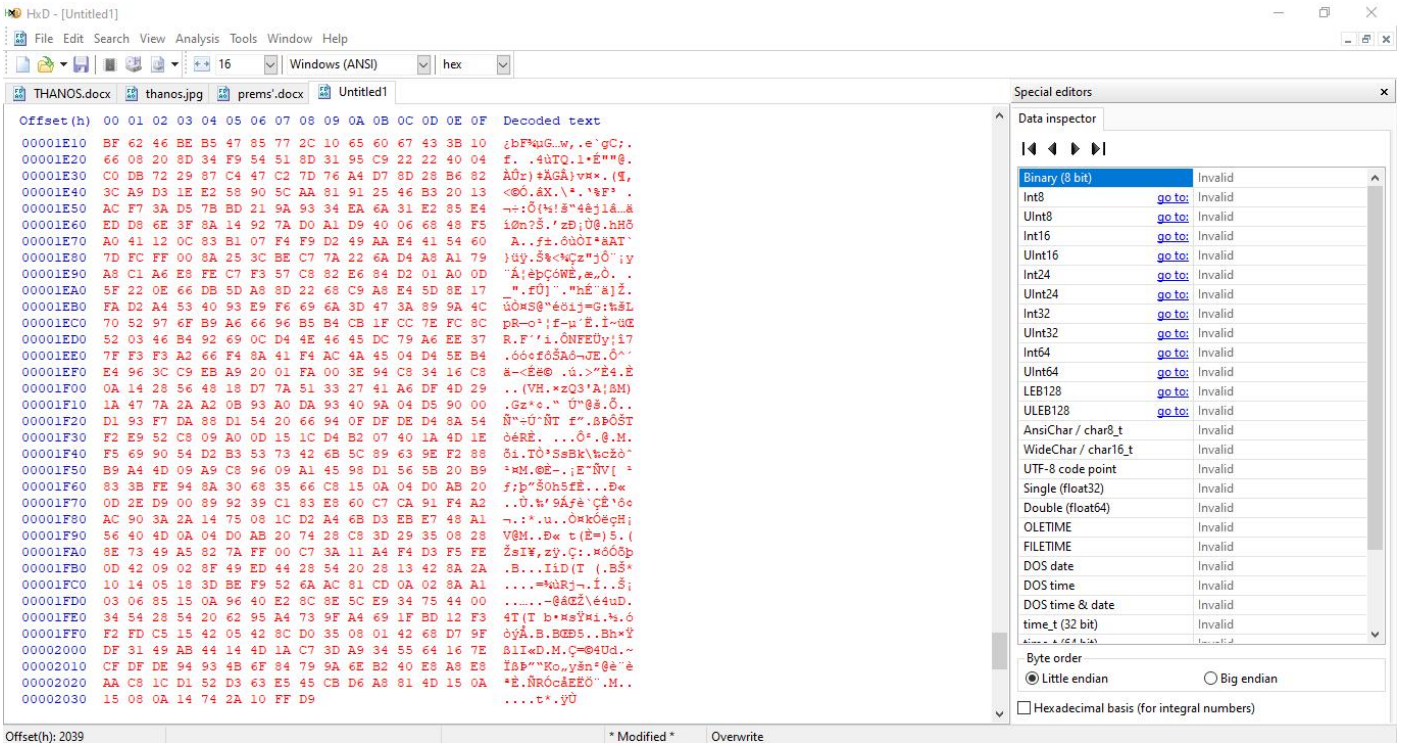
File Header offset - FEA
File Trailer offset - 3022



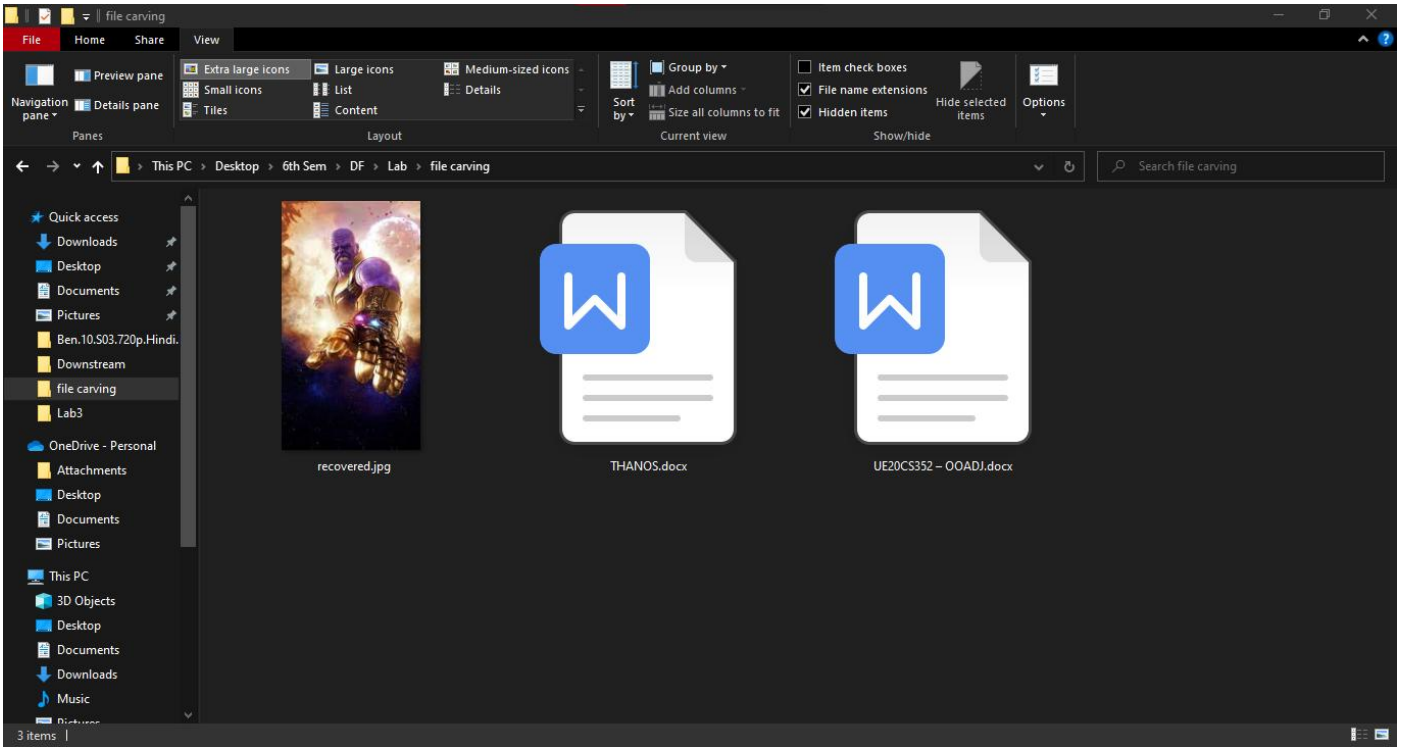
- The entire jpg file will be highlighted in blue. This block of data now needs to be copied into the clipboard so that it can be stored as a separate file.



➢ Now start a new file in hex editor by clicking File > New or (Ctrl + N) and paste the contents to new file.



➢ File saved as recovered.jpg



➢ As you we can see we carved the same image as in the document.