

# Corrupted file

Flag : picoCTF{r3st0r1ng\_th3\_by73s\_0e8fb0ec}

## Solution Approach

- Given a file which is corrupted so i open it in HexEditor
- Clearly the header is JFIF ie it is for JPEG/JPG data file . whose header is not having the correct magic bytes

-Untitled-	fixed_file	file
00000000	5C 78 FF E0 00 10 4A 46	49 46 00 01 01 00 00 01
00000010	00 01 00 00 FF DB 00 43	00 08 06 06 07 06 05 08
00000020	07 07 07 09 09 08 0A 0C	14 0D 0C 0B 0B 0C 19 12

- After inputting the correct magic bytes i save this file

Undo	Redo	Tools	Settings	Help
-Untitled-	fixed_file			
00000000	FF D8 FF E0 00 10 4A 46	49 46 00 01 01 00 00 01	=	a..JFIF.....
00000010	00 01 00 00 FF DB 00 43	00 08 06 06 07 06 05 08	....	.C.....
00000020	07 07 07 09 09 08 0A 0C	14 0D 0C 0B 0B 0C 19 12	.....	.....
00000030	13 0F 14 1D 1A 1F 1E 1D	1A 1C 1C 20 24 2E 27 20	.....	\$.'
00000040	22 2C 23 1C 1C 28 37 29	2C 30 31 34 34 34 1E 27	" # (7)	01444 !

- Then i open it in image viewer and the Flag is written in it

picoCTF{r3st0r1ng\_th3\_by73s\_0e8fb0ec}

- To extract the text i run the command `tesseract fixedimg output`
- The output.txt is created which contains the flag as text