

# Digital Forensics Assignment 3

a) Name : chythanya gudla  
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b) First I loaded the image.img into a file and converted into hexadecimal. Based on the byte offset locations and the calculations present in the code comments I have obtained the output for all 12 questions

Output:

- 1 Number of bytes boot block occupy : 512
- 2 Number of bytes per sector : 512
- 3 Number of sectors per cluster : 8
- 4 Number of reserved sectors : 8
- 5 Number of FAT copies : 2
- 6 Number of root directory entries : 512
- 7 Number of sectors per FAT : 8
- 8 byte offset of the first File Allocation Table: 4096
- 9 byte offset of the second FAT table: 8192
- 10 byte offset of the first Root Directory entry: 12288
- 11 byte offset of the first Data Block : 28672
- 12 Total size of the data region: 10457088

c. I used poweriso software to mount the image and extracting the jpg images

d. references:

[http://www.maverick-os.dk/FileSystemFormats/FAT16\\_FileSystem.html](http://www.maverick-os.dk/FileSystemFormats/FAT16_FileSystem.html)

[https://technet.microsoft.com/en-us/library/cc776720\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/cc776720(v=ws.10).aspx)

<http://www.cis.gvsu.edu/~dulimarh/CS452/Labs/Lab12/>

<https://www.win.tue.nl/~aeb/linux/fs/fat/fat-1.html>

<http://www.tavi.co.uk/phobos/fat.html>

<http://stackoverflow.com/questions/9210525/how-do-i-convert-hex-to-decimal-in-python>