Part 1

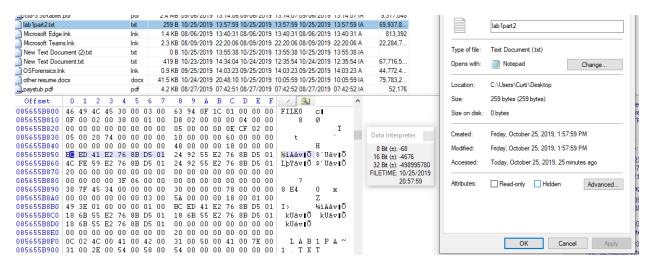
Observation – The headers for a certain program are the same. In this case the older format of Microsoft Office programs (doc, xls) have the same header, as do docx and xlsx. The .jpg and .png have different hearers. This would be useful in a forensic investigation because it can narrow down the type of software you might need to interpret some data.

Headers - Notepad				
File Edit Fo	ormat View	Help		
(.doc) Offset	0 1 2	2 3 4 5	6 7 8 9 A B C D E F	
00000000	DØ CF 11	1 E0 A1 B1	1A E1	ĐÏ à¡± á
(.xls) Offset	0 1 2	2 3 4 5	6 7 8 9 A B C D E F	
00000000	DØ CF 11	1 E0 A1 B1	1A E1	ĐÏ à¡± á
(.docx) Offset	0 1 2	2 3 4 5	6 7 8 9 A B C D E F	
00000000	50 4B 03	3 04 14 00	06 00	PK
(.xlsx) Offset	0 1 2	2 3 4 5	6 7 8 9 10 11 12 13 14 15	
00000000	50 4B 03	3 04 14 00	06 00	PK
(.jpg) Offset	0 1 2	2 3 4 5	6 7 8 9 10 11 12 13 14 15	
00000000	FF D8 FF	F E0 00 10	4A 46	ÿ Ø ÿà JF
(.png) Offset	0 1 2	2 3 4 5	6 7 8 9 10 11 12 13 14 15	
00000000	89 50 48	47 0D 0A	1A 0A	‰PNG

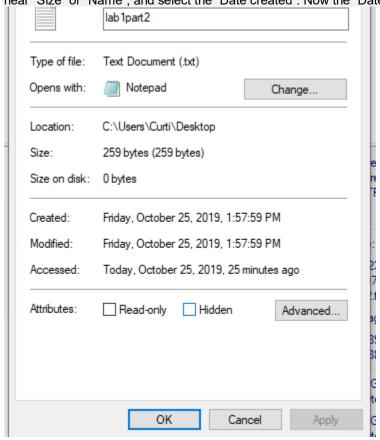
Part 2

1.According to the data interpreter, what is the file create date and time for the file lab1par2t.txt?

According to the data interpreter the file was created at 20:57:59 on 10/25/2019



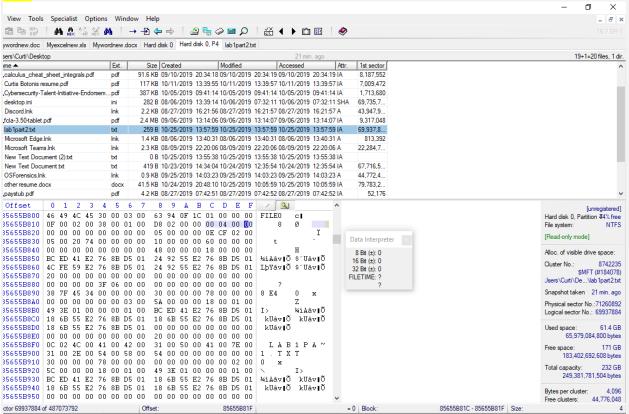
Using File Explorer and go to the folder where the lab1part2.txt located, right click on the arrow near "Size" or "Name", and select the "Date created". Now the "Date created" time is also displayed.

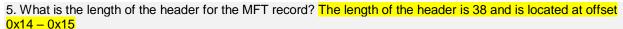


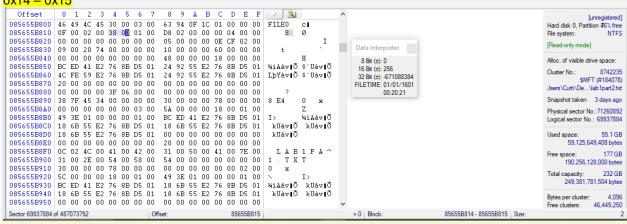
3. Compare this time and the time you got from data interpreter. Are they the same? If not, why (You may google online to get the answer)? The date and time created are different than the actual time created because (see picture below)

X-Ways Forensics employs its own, not Windows' logic to convert UTC timestamps to a freely chosen time zone for display in the directory browser, in report tables and exported lists. It displays timestamps independently of the time zone selected in the examiner's system's Control Panel. The display of timestamps in X-Ways Forensics may differ from Windows because in Windows a timestamp in daylight saving time is not displayed based on daylight saving time if daylight saving time is not active when looking at that timestamp.

4. What is the size of the MFT record? The size of the MFT record is 400 bytes and is located at offset 0x1C to 0x1F







6. What is the file's last modified date and time? Take a screenshot with data interpreter to prove your answer.





7. What is the file name? In which attribute and at what position can you find it? The short file name is at offset

