FSO - LAB 7 - QUESTIONS

Question 1: Write down the values that appear in "Super-block" section.

Data in the superblock given by MinixViewer

Number of i-nodes

Number of zones

1st data zone

Question 2: Answer the following questions accurately:

How many blocks occupies the i-node bitmap?	
What i-nodes are occupied? Which are these i-nodes?	
How many blocks occupies the zone bitmap?	
How many blocks are occupied by the i-nodes?	
Look at "Zone map" and verify that the block first block in the data zone is busy. What file and what i-node corresponds to this block?	

Question 3: Click on the i-node tab on the viewer, fill in the table for **i-node 1** and explain the values obtained:

	i-node 1
Mode	
UID	
Size	
Instant	
GID	
Links	
Zone 0	
Zone 1	
Zone 2	
Zone 3	
Zone 4	
Zone 5	
Zone 6	
Zone SI	
Zone DI	

Explain the value of field "Size"	
Explain the value of field "Links"	

Question 4: With the new structure created, answer the following questions:

Have they changed the superblock data after you create the file structure? Whether they have changed or not explain why.	
How many and which nodos-i are occupied?	
How many and what data blocks are occupied?	

Question 5: Fill the following table for i-node 1

	i-node 1
Mode	
UID	
Size	
Instant	
GID	
Links	
Zone 0	
Zone 1	
Zone 2	
Zone 3	
Zone 4	
Zone 5	
Zone 6	
Zone SI	
Zone DI	

Question 6: Explain the changes that appear in the values of its fields and compare the to the ones got previously.

Question 7: Look at the field mode that you have filled in question 5, what kind of file corresponds to that value? Check the 'Mode' value is consistent with the type of file and the permission bits associated to the permissions word. Indicate the meaning of the position of the digits in the field "Mode".

Question 8: On the viewer load file minixfs02. Go to the "File/Directory content" tab and display the contents of files *users/felipe/mish* and *usr/f1*, and compare them to the *bin/cat* and *users/ana/f1*, annotating ASCII content of the first line on the following table.

Note. File names are relative to Minix file system root directory ($HOME/minix)

users/felipe/mish	
usr/f1	
bin/cat	
users/ana/f1	

Question 9: Relying on the information provided by Minix Viewer, fill in the following table:

	usr/prac3	bin/usuarios	unix
Type of addressing modes to zones are used in the i-node: direct, indirect, double indirect			
Number of blocks occupied with references to block			
Size in bytes of the file			
Number of blocks occupied with own file data			
Total number of blocks allocated			