

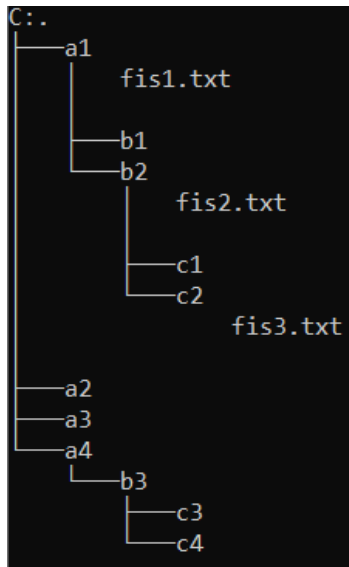
1. a)

```
C:\Lucru>md Test1Lab2020AnghelusCrinaCosmina
C:\Lucru>cd Test1Lab2020AnghelusCrinaCosmina
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>md a1\b2\c1
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>cd a1
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>md b1
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>cd b2
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>b2>md c2
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>b2>cd ..
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>cd ..
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>md a2
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>md a3
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>md a4\b3\c3
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>cd a4\b3
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>a4\b3>md c4
```

b)

```
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>cd a1
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>notepad fis1.txt
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>cd b2
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>a1\b2>notepad fis2.txt
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>a1\b2>cd c2
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>a1\b2\c2>notepad fis3.txt
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\>a1\b2\c2>_
```

c)



d)

C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>dir /s				Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\			
Volume in drive C is OS				05/31/2021 08:32 AM <DIR> .			
Volume Serial Number is FC1F-4341				05/31/2021 08:32 AM <DIR> ..			
Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina				05/31/2021 08:34 AM 79 fis3.txt			
05/31/2021 08:18 AM <DIR> .				1 File(s) 79 bytes			
05/31/2021 08:18 AM <DIR> ..				Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\			
05/31/2021 08:24 AM <DIR> a1				05/31/2021 08:17 AM <DIR> .			
05/31/2021 08:17 AM <DIR> a2				05/31/2021 08:17 AM <DIR> ..			
05/31/2021 08:17 AM <DIR> a3				0 File(s) 0 bytes			
05/31/2021 08:18 AM <DIR> a4				Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\			
0 File(s) 0 bytes				05/31/2021 08:17 AM <DIR> .			
Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\				05/31/2021 08:17 AM <DIR> ..			
05/31/2021 08:24 AM <DIR> .				0 File(s) 0 bytes			
05/31/2021 08:24 AM <DIR> ..				Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\			
05/31/2021 08:17 AM <DIR> b1				05/31/2021 08:18 AM <DIR> .			
05/31/2021 08:26 AM <DIR> b2				05/31/2021 08:18 AM <DIR> ..			
05/31/2021 08:32 AM 81 fis1.txt				05/31/2021 08:20 AM <DIR> b3			
1 File(s) 81 bytes				0 File(s) 0 bytes			
Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\				Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\			
05/31/2021 08:17 AM <DIR> .				05/31/2021 08:20 AM <DIR> .			
05/31/2021 08:17 AM <DIR> ..				05/31/2021 08:20 AM <DIR> ..			
0 File(s) 0 bytes				05/31/2021 08:18 AM <DIR> c3			
Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\				05/31/2021 08:20 AM <DIR> c4			
05/31/2021 08:26 AM <DIR> .				0 File(s) 0 bytes			
05/31/2021 08:26 AM <DIR> ..				Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\			
05/31/2021 08:17 AM <DIR> c1				05/31/2021 08:18 AM <DIR> .			
05/31/2021 08:32 AM <DIR> c2				05/31/2021 08:18 AM <DIR> ..			
05/31/2021 08:30 AM 84 fis2.txt				0 File(s) 0 bytes			
1 File(s) 84 bytes				Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\			
Directory of C:\Lucru\Test1Lab2020AnghelusCrinaCosmina\				05/31/2021 08:20 AM <DIR> .			
05/31/2021 08:17 AM <DIR> .				05/31/2021 08:20 AM <DIR> ..			
05/31/2021 08:17 AM <DIR> ..				0 File(s) 0 bytes			
0 File(s) 0 bytes				Total Files Listed:			
				3 File(s)			
				244 bytes			

e)

```
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>find "Romania" a1\fis1.txt a1\b2\fis2.txt a1\b2\c2\fis3.txt

----- A1\FIS1.TXT
Romania   Bucuresti 20000

----- A1\B2\FIS2.TXT
Romania   Bucuresti 40000

----- A1\B2\C2\FIS3.TXT
```

f)

```
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>path
PATH=C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\WINDOWS\system32;C:\WINDOWS;C:\WI
NDOWS\System32\Wbem;C:\WINDOWS\System32\WindowsPowerShell\v1.0\;C:\WINDOWS\System32\OpenSSH\;C:\Pr
ogram Files\dotnet\;C:\Program Files\Microsoft SQL Server\130\Tools\Binn\;C:\Program Files\Microso
ft SQL Server\Client SDK\ODBC\170\Tools\Binn\;C:\Users\bienc\AppData\Local\Microsoft\WindowsApps;C
:\Users\bienc\.dotnet\tools
```

```
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>path a1\b1 a1\b2\c2 a4\b3\c3

C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>path
PATH=a1\b1 a1\b2\c2 a4\b3\c3
```

g)

:repeta

shift

if "%1"=="" goto :sfarsit

if exist %1\\* (

echo "%1 este director"

) else (

echo "%1 nu este director"

)

goto :repeta

:sfarsit

```
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>script a2 .\a1\b2\c2 .\a1\b1 .\a4\b3
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>shift
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>if ".\a1\b2\c2" == "" goto :sfarsit
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>if exist .\a1\b2\c2\* (echo ".\a1\b2\c2 este director" ) else (echo ".\a1\b2\c2
nu este director" )
".\a1\b2\c2 este director"
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>goto :repeta
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>shift
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>if ".\a1\b1" == "" goto :sfarsit
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>if exist .\a1\b1\* (echo ".\a1\b1 este director" ) else (echo ".\a1\b1 nu este
director" )
".\a1\b1 este director"
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>goto :repeta
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>shift
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>if ".\a4\b3" == "" goto :sfarsit
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>if exist .\a4\b3\* (echo ".\a4\b3 este director" ) else (echo ".\a4\b3 nu este
director" )
".\a4\b3 este director"
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>goto :repeta
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>shift
C:\Lucru\Test1Lab2020AnghelusCrinaCosmina>if "" == "" goto :sfarsit
```

2. a)

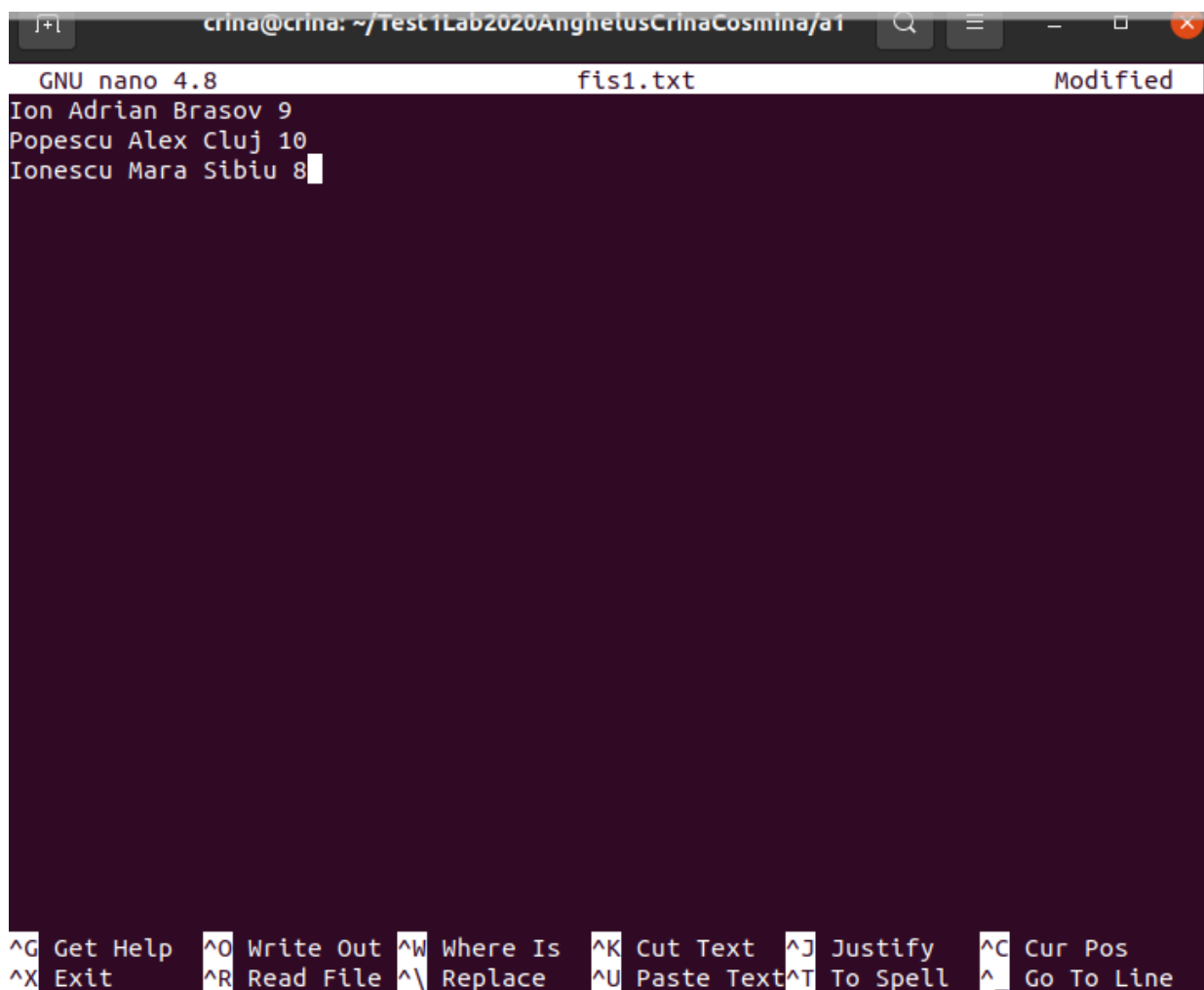
```
crina@crina: ~/Test1Lab2020AnghelusCrinaCosmina
crina@crina:~$ mkdir Test1Lab2020AnghelusCrinaCosmina
crina@crina:~$ cd Test1Lab2020AnghelusCrinaCosmina
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ mkdir a1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ mkdir a2
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ cd a1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ mkdir b1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ mkdir b2
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ mkdir b3
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ cd b1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ mkdir c1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ mkdir c2
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ mkdir c3
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ mkdir c4
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ cd ..
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ cd ..
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ tree
.
├── a1
│   ├── b1
│   │   ├── c1
│   │   ├── c2
│   │   ├── c3
│   │   └── c4
│   ├── b2
│   └── b3
└── a2

9 directories, 0 files
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$
```

b)

```
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ cd a1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ cd b1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ cat >fis2.txt
Popescu Mara Cluj 7
Alexandru Mihai Timisoara 9
Olteanu Ana Arad 8crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ cd c1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1/c1$ cat >fis3.txt <<EOF
> Ion Roxana Bucuresti 10
> Oprea Andrei Brasov 7
> Oprea Maria Cluj 8
> EOF
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1/c1$ cd ..
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ cd ..
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ touch fis1.txt
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ cat fis1.txt
```

```
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ nano fis1.txt
```



The screenshot shows the nano text editor interface. The title bar indicates the file is 'fis1.txt' and it has been 'Modified'. The editor content shows three lines of text: 'Ion Adrian Brasov 9', 'Popescu Alex Cluj 10', and 'Ionescu Mara Sibiu 8'. The bottom status bar displays various keyboard shortcuts for navigation and editing.

```
GNU nano 4.8          fis1.txt          Modified
Ion Adrian Brasov 9
Popescu Alex Cluj 10
Ionescu Mara Sibiu 8

^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify      ^C Cur Pos
^X Exit          ^R Read File    ^\ Replace      ^U Paste Text   ^T To Spell     ^_ Go To Line
```

c)

```
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1$ cd b1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ awk '{print $1 $4}' fis2.txt
Popescu7
Alexandru9
Olteanu8
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$
```

d)

```
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1$ cd c1
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1/c1$ sort -k1,1r -k2,3 -k4,4nr fis3.txt
Oprea Andrei Brasov 7
Oprea Maria Cluj 8
Ion Roxana Bucuresti 10
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina/a1/b1/c1$
```

e)

```
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ ls -alis /home/crina/Test1Lab2020AnghelusCrinaCosmina
total 16
790093 4 drwxrwxr-x  4 crina crina 4096 mai 31 08:13 .
696346 4 drwxr-xr-x 18 crina crina 4096 mai 31 08:13 ..
790095 4 drwxrwxr-x  5 crina crina 4096 mai 31 08:30 a1
790096 4 drwxrwxr-x  2 crina crina 4096 mai 31 08:13 a2
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$
```

f)

```
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ tree
.
├── a1
│   ├── b1
│   │   ├── c1
│   │   │   └── fis3.txt
│   │   ├── c2
│   │   ├── c3
│   │   ├── c4
│   │   └── fis2.txt
│   ├── b2
│   ├── b3
│   └── fis1.txt
└── a2
```

g)

echo -n "Scrieti numele directorului pe care doriti sa il cautati: "

read dir

for filename in "\$dir"/\*

do

if (-d \$filename)

then

for file in \*

do

[ -w \$file ]&& W="Write = yes" || W="Write = No"

[ -x \$file ] && X="Execute = yes" || X="Execute = No"

[ -r \$file ] && R="Read = yes" || R="Read = No"

if(\$W=="Write = yes"&&X="Execute = yes"&&R="Read = yes")

echo &file

enddo

fi

else echo "\$filename nu este director"

fi

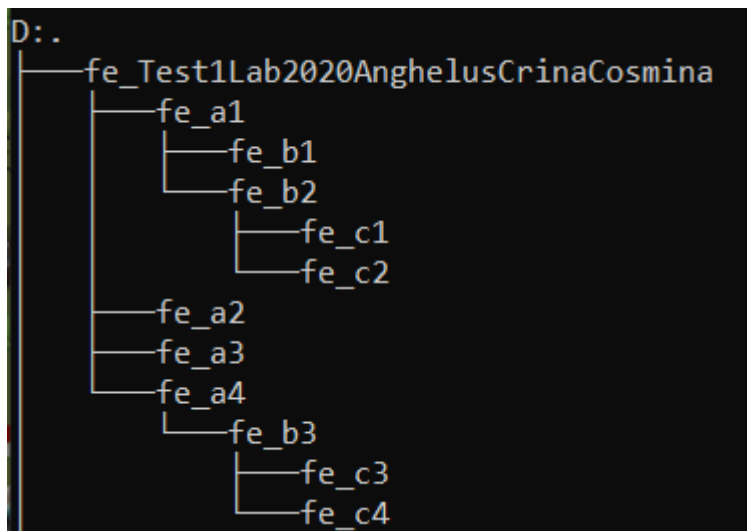
done

```
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$  
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ touch script.bat  
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ chmod a+x script.bat  
crina@crina:~/Test1Lab2020AnghelusCrinaCosmina$ ./script.bat
```



3.

I.



II.

a)

s PC > Local Disk (D:) > Lucru > fe_Test1Lab2020AnghelusCrinaCosmina > fe_a3				▼	🔄	🔍
Name		Date modified	Type	Size		
📄 Arhiva		5/31/2021 8:34 AM	Compressed (zipp...	5,836 KB		

b)

Files	Mark	Commands	Net	Show	Configuration	Start
d ▾	[none_] 110,394,780 k of 137,416,700 k free					\ ..
▼ d:\Lucru\fe_Test1Lab2020AnghelusCrinaCosmina\fe ▸						* ▼
↓ Name		Ext	Size	Date	Attr	
📁 [..]			<DIR>	05/31/2021 08:32	----	
Arhiva		zip	5,975,636	05/31/2021 08:34	-a--	

Files Mark Commands Net Show Configuration Start

- Change Attributes...
- Pack... Alt+F5
- Unpack Specific Files... Alt+F9
- Test Archive(s) Alt+Shift+F9
- Compare By Content...
- Associate With...
- Internal Associations (Total Commander Only)...
- Properties... Alt+Enter
- Calculate Occupied Space... Ctrl+L
- Multi-Rename Tool... Ctrl+M
- Edit Comment... Ctrl+Z
- Print ▶

- Split File...
- Combine Files...
- Encode File (MIME,UUE,XXE)...
- Decode File (MIME,UUE,XXE,BinHex)...
- Create Checksum File(s) (CRC32, MD5, SHA1)...
- Verify Checksums (from checksum files)

Quit Alt+F4

Split ×

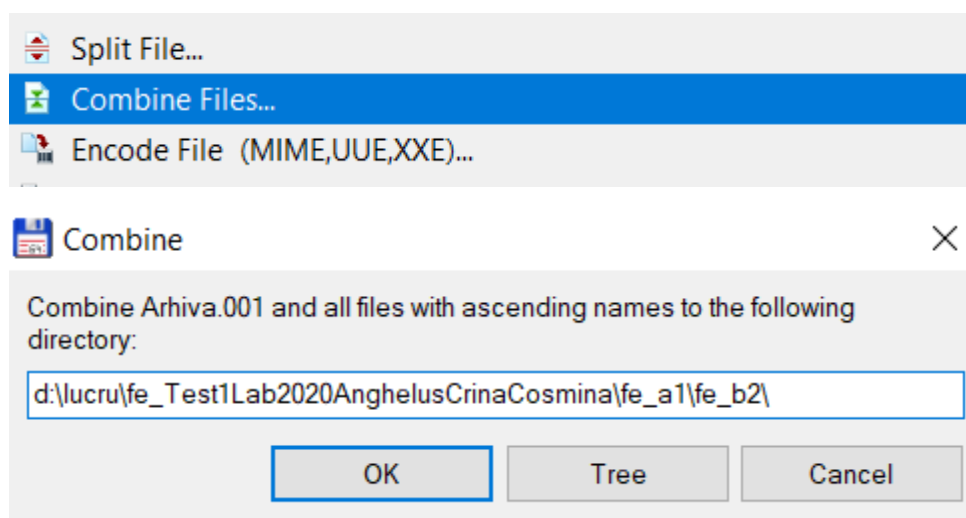
Split the file 'Arhiva.zip' to directory:

Bytes per file:

☐ Delete files on target disk (removable disks only)

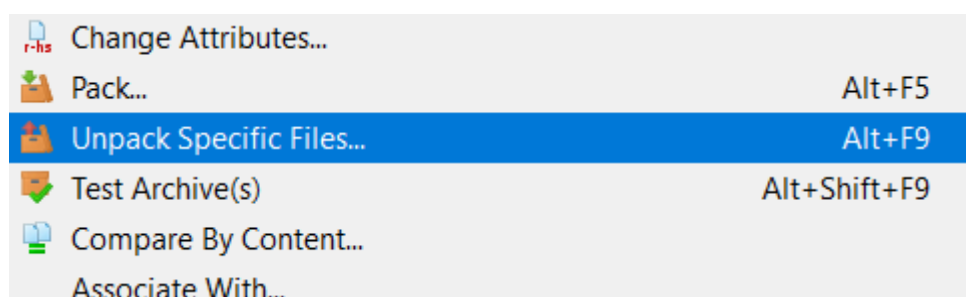
▼ d:\Lucru\fe_Test1Lab2020AnghelusCrinaCosmina\fe_a1\fe_b2\fe_c1\*.*					*	▼
↓ Name	Ext	Size	Date	Attr		
🏠 [..]		<DIR>	05/31/2021 08:43	----		
📁 Arhiva	crc	51	05/31/2021 08:43	-a--		
📁 Arhiva	005	144,980	05/31/2021 08:43	-a--		
📁 Arhiva	004	1,457,664	05/31/2021 08:43	-a--		
📁 Arhiva	003	1,457,664	05/31/2021 08:43	-a--		
📁 Arhiva	002	1,457,664	05/31/2021 08:43	-a--		
📁 Arhiva	001	1,457,664	05/31/2021 08:43	-a--		

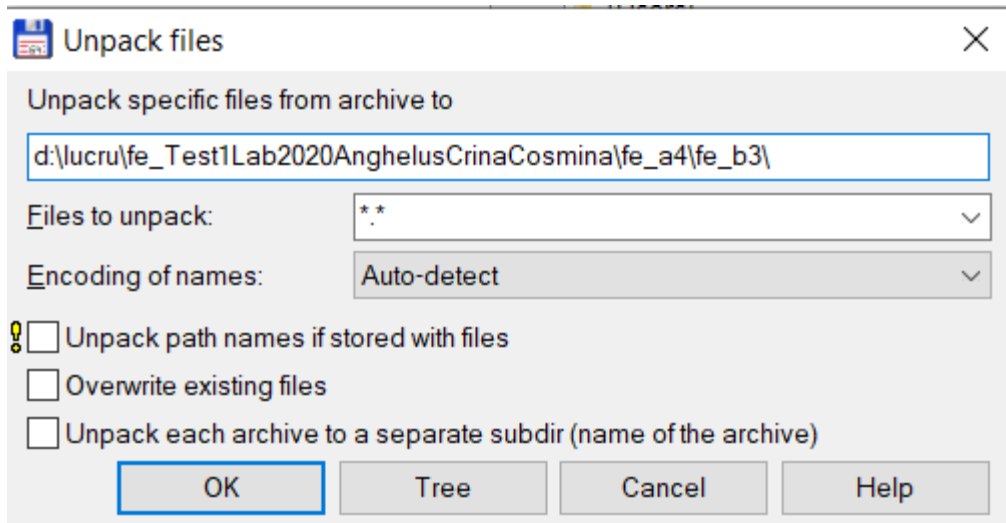
c)



▼ d:\Lucru\fe_Test1Lab2020AnghelusCrinaCosmina\fe_a1\fe_b2\*.*					*	▼
↓ Name	Ext	Size	Date	Attr		
🏠 [..]		<DIR>	05/31/2021 08:45	----		
📁 [fe_c1]		<DIR>	05/31/2021 08:43	----		
📁 [fe_c2]		<DIR>	05/30/2021 20:11	----		
📁 Arhiva	zip	5,975,636	05/31/2021 08:45	-a--		

d)





▼ d:\Lucru\fe_Test1Lab2020AnghelusCrinaCosmina\fe_a4\fe_b3\*.*					*	▼
↓ Name	Ext	Size	Date	Attr		
📁 [..]		<DIR>	05/31/2021 08:49	----		
📁 [fe_c3]		<DIR>	05/30/2021 20:11	----		
📁 [fe_c4]		<DIR>	05/31/2021 08:32	----		
🖼️ adn5	gif	1,008,338	03/07/2021 12:53	-a--		
🖼️ adn4	gif	1,008,338	03/07/2021 12:53	-a--		
🖼️ adn3	gif	1,008,338	03/07/2021 12:53	-a--		
🖼️ adn2	gif	1,008,338	03/07/2021 12:53	-a--		
🖼️ adn1	gif	1,008,338	03/07/2021 12:53	-a--		
🖼️ adn	gif	1,008,338	03/07/2021 12:53	-a--		