

SAGE UNIVERSITY



PRACTICAL FILE

Enrollement no.: 23COA2BCA1041

Program: BCA

Semester: 1st Sem.

Subject: Operating Systems

Subject Code: CAPDCOPS003T

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PRACTICAL-1

Objective: Make Subdirectory of your name in root directory.

Explanation: This command creates a new directory with the specified name in the G drive's root. We can use md or mkdir to create subdirectory.

Syntax:

```
G:\>md Jiya  
G:\>mkdir Jain
```

Output:

```
G:\>dir  
Volume in drive G is New Volume  
Volume Serial Number is 863A-32C6  
  
Directory of G:\  
  
13-01-2024  09:04 AM    <DIR>          APPS  
27-12-2023  10:03 PM    <DIR>          CODES  
26-12-2023  05:09 PM    <DIR>          GAMES  
18-01-2024  06:05 PM    <DIR>          Jain  
18-01-2024  06:05 PM    <DIR>          Jiya  
               0 File(s)                0 bytes  
               5 Dir(s)  136,301,662,208 bytes free
```

PRACTICAL-2

Objective: Display Date & Time on screen.

Explanation: This command can set or display the current system date and time on screen.

Syntax of Date:

```
C:\>Date_
```

Output:

```
C:\>Date
The current date is: Thu 01/04/2024
Enter the new date: (mm-dd-yy)
```

Syntax of Time:

```
C:\>Time
```

Output:

```
C:\>Time
The current time is: 18:02:24.73
Enter the new time: _
```

PRACTICAL-3

Objective: Display the structure of root directory.

Explanation: Displays a tree-like structure of the root directory, including all subdirectories and files, sorted by name.

Syntax:

```
C:\>Tree
```

Output:

```
C:.\
├── 0409
├── AdvancedInstallers
├── AppLocker
├── appraiser
├── ar-SA
├── ASUSACCI
├── bg-BG
├── Boot
│   └── en-US
├── Bthprops
├── ca-ES
├── CatRoot
│   ├── {127D0A1D-4EF2-11D1-8608-00C04FC295EE}
│   └── {F750E6C3-38EE-11D1-85E5-00C04FC295EE}
├── catroot2
│   ├── {127D0A1D-4EF2-11D1-8608-00C04FC295EE}
│   └── {F750E6C3-38EE-11D1-85E5-00C04FC295EE}
├── CodeIntegrity
│   ├── CiPolicies
│   │   ├── Active
│   │   ├── Internal
│   │   └── Staged
│   └── Tokens
│       ├── Active
│       └── Staged
├── Com
│   ├── dmp
│   └── en-US
├── config
│   ├── BFS
│   ├── Journal
│   ├── RegBack
│   ├── systemprofile
│   └── TxR
```

PRACTICAL-4

Objective: Make file "ABC" in subdirectory "Sage".

Explanation: Creates a new file named "ABC.txt" in the "Sage" subdirectory and allows to enter text.

Syntax:

```
C:\>md SAGE  
  
C:\>cd sage  
  
C:\SAGE>echo.>ABC.txt
```

Output:

```
C:\SAGE>dir  
Volume in drive C is OS  
Volume Serial Number is 7EDD-5869  
  
Directory of C:\SAGE  
  
01/04/2024  06:23 PM    <DIR>          .  
01/04/2024  06:23 PM                2 ABC.txt  
                1 File(s)                2 bytes  
                1 Dir(s) 18,435,194,880 bytes free  
  
C:\SAGE>
```

PRACTICAL-5

Objective: Display the content of file "ABC".

Explanation: This command will output the content of the "ABC.txt" file located in the "Sage" subdirectory on the C drive. If the file contains text, we'll see the text displayed in the command prompt.

Syntax:

```
C:\SAGE>type C:\sage\ABC.txt
```

Output:

```
C:\SAGE>type C:\sage\ABC.txt  
under file text
```

PRACTICAL-6

Objective: Make subdirectory "MCA" in root directory.

Explanation: This command creates a new directory named "MCA" in the root directory of the C drive.

Syntax:

```
C:\>md MCA
```

Output:

```
C:\>dir
Volume in drive C is OS
Volume Serial Number is 7EDD-5869

Directory of C:\

06/09/2023  07:48 PM    <DIR>          eSupport
01/04/2024  06:34 PM    <DIR>          MCA
09/06/2023  08:01 PM    <DIR>          MinGW
12/14/2023  08:12 PM    <DIR>          Program Files
12/03/2023  08:50 PM    <DIR>          Program Files (x86)
10/08/2023  05:36 PM    <DIR>          Users
12/06/2023  07:30 PM    <DIR>          Windows
09/14/2023  05:09 PM    <DIR>          XboxGames
               0 File(s)                0 bytes
               8 Dir(s)  18,434,441,216 bytes free

C:\>
```

PRACTICAL-7

Objective: Give new name to the file "ABC" as "XYZ".

Explanation: This command renames the file from "ABC.txt" to "XYZ.txt" in the "Sage" subdirectory on the C drive.

Syntax:

```
C:\sage>ren ABC.txt XYZ.txt
```

Output:

```
C:\sage>ren ABC.txt XYZ.txt

C:\sage>dir
Volume in drive C is OS
Volume Serial Number is 7EDD-5869

Directory of C:\sage

01/04/2024  06:40 PM    <DIR>          .
01/04/2024  06:39 PM                2 XYZ.txt
                1 File(s)                2 bytes
                1 Dir(s) 18,454,200,320 bytes free

C:\sage>
```


PRACTICAL-8

Objective: Display the name of the disk.

Explanation: Displays the disk volume label and serial number. If don't specify a drive, it shows the volume label of the current drive.

Syntax:

```
C:\>vol
```

Output:

```
C:\>vol
Volume in drive C is OS
Volume Serial Number is 7EDD-5869
```

PRACTICAL-9

Objective: Make Subdirectory "BCA" inside subdirectory "Sage".

Explanation: Displays the disk volume label and serial number. If don't specify a drive, it shows the volume label of the current drive.

Syntax:

```
C:\>md C:\sage\BCA
```

Output:

```
C:\>md C:\sage\BCA

C:\>
C:\>dir C:\sage
Volume in drive C is OS
Volume Serial Number is 7EDD-5869

Directory of C:\sage

01/04/2024  06:44 PM    <DIR>          .
01/04/2024  06:44 PM    <DIR>          BCA
01/04/2024  06:39 PM                2 XYZ.txt
                1 File(s)                2 bytes
                2 Dir(s)  18,452,557,824 bytes free

C:\>
```

PRACTICAL-10

Objective: Remove subdirectory "MCA".

Explanation: The command removes the specified directory, but it will only work if the directory is empty.

Syntax:

```
C:\>rd MCA
```

Output:

```
C:\>rd MCA

C:\>dir
Volume in drive C is OS
Volume Serial Number is 7EDD-5869

Directory of C:\

06/09/2023  07:48 PM    <DIR>          eSupport
09/06/2023  08:01 PM    <DIR>          MinGW
12/14/2023  08:12 PM    <DIR>          Program Files
12/03/2023  08:50 PM    <DIR>          Program Files (x86)
01/04/2024  06:44 PM    <DIR>          sage
10/08/2023  05:36 PM    <DIR>          Users
12/06/2023  07:30 PM    <DIR>          Windows
09/14/2023  05:09 PM    <DIR>          XboxGames
               0 File(s)                0 bytes
               8 Dir(s)  18,451,972,096 bytes free

C:\>_
```

PRACTICAL-11

Objective: Make an extra copy of file "XYZ" in subdirectory "BCA".

Explanation: Copies a file from a source location to a destination location.

Syntax:

```
C:\>copy C:\sage\XYZ.txt C:\sage\BCA\  
1 file(s) copied.
```

Output:

```
C:\>dir c:\sage\BCA  
Volume in drive C is OS  
Volume Serial Number is 7EDD-5869  
  
Directory of c:\sage\BCA  
  
01/04/2024  06:52 PM    <DIR>          .  
01/04/2024  06:44 PM    <DIR>          ..  
01/04/2024  06:39 PM                2 XYZ.txt  
                1 File(s)                2 bytes  
                2 Dir(s) 18,448,814,080 bytes free  
  
C:\>
```

PRACTICAL-12

Objective: Display those files on screen which are having secondary name as ".c"..

Explanation: Display copies of file from a source location to a destination location. Specifies the directory (C:) and the pattern to match files with a ".c" extension.

Syntax:

```
C:\>dir *.C_
```

Output:

```
C:\>dir *.C
Volume in drive C is OS
Volume Serial Number is 7EDD-5869

Directory of C:\

01/04/2024  07:17 PM                923 Calculator.c
01/04/2024  07:17 PM                923 multiplication_table_for_loop.c
               2 File(s)              1,846 bytes
               0 Dir(s) 18,213,793,792 bytes free
```

PRACTICAL-13

Objective: Remove file "xyz" from subdirectory "BCA".

Explanation: Deletes or remove the files.

Syntax:

```
C:\>del C:\sage\BCA\XYZ.txt
```

Output:

```
C:\>dir C:\sage\BCA
Volume in drive C is OS
Volume Serial Number is 7EDD-5869

Directory of C:\sage\BCA

01/04/2024  06:59 PM    <DIR>          .
01/04/2024  06:44 PM    <DIR>          ..
               0 File(s)                0 bytes
               2 Dir(s)  18,446,753,792 bytes free
```

PRACTICAL-14

Objective: Change position of file "ABC" of subdirectory "sage" to root directory.

Explanation: Moves a file or directory from one location to another.

Syntax:

```
C:\>move C:\sage\XYZ.txt C:\  
1 file(s) moved.
```

Output:

```
C:\>dir C:\  
Volume in drive C is OS  
Volume Serial Number is 7EDD-5869  
  
Directory of C:\  
  
06/09/2023  07:48 PM    <DIR>          eSupport  
09/06/2023  08:01 PM    <DIR>          MinGW  
12/14/2023  08:12 PM    <DIR>          Program Files  
12/03/2023  08:50 PM    <DIR>          Program Files (x86)  
01/04/2024  07:04 PM    <DIR>          sage  
10/08/2023  05:36 PM    <DIR>          Users  
12/06/2023  07:30 PM    <DIR>          Windows  
09/14/2023  05:09 PM    <DIR>          XboxGames  
01/04/2024  06:39 PM                2 XYZ.txt  
                1 File(s)                2 bytes  
                8 Dir(s) 18,446,032,896 bytes free
```

PRACTICAL-15

Objective: Display those file which are having primary name of three characters and secondary name as anything.

Explanation: Lists files and directories in the specified directory that match the given pattern. The ??? wildcard represents any three characters in the primary name, and .* represents any secondary name (file extension).

Syntax:

```
C:\>dir C:\???.*
```

Output:

```
C:\>dir C:\???.*
Volume in drive C is OS
Volume Serial Number is 7EDD-5869

Directory of C:\

01/04/2024  06:39 PM                2 XYZ.txt
                1 File(s)                2 bytes
                0 Dir(s) 18,445,590,528 bytes free
```


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Name :- JIYA JAIN Section :- “A” Program :- BCA .
Roll No. :- _____ Year :- 1ST YEAR Semester :- 1ST SEM.
Subject :- OPERATING SYSTEM Subject code :- CAPDCOPS003P

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1.	Make Subdirectory of your name in root directory.			
2.	Display Date & Time on screen.			
3.	Display the structure of root directory.			
4.	Make file “ABC” in subdirectory “Sage”.			
5.	Display the content of file “ABC”.			
6.	Make subdirectory “MCA” in root directory.			
7.	Give new name to the file “ABC” as “XYZ”.			
8.	Display the name of the disk.			
9.	Make Subdirectory “BCA” inside subdirectory “Sage”.			
10.	Remove subdirectory “MCA”.			
11.	Make an extra copy of file “XYZ” in subdirectory “BCA”.			
12.	Display those files on screen which are having secondary name as “.c”.			
13.	Remove file “xyz” from subdirectory “BCA”.			
14.	Change position of file “ABC” of subdirectory “sage” to root directory.			
15.	Display those file which are having primary name of three characters and secondary name as anything.			