

Instruction:

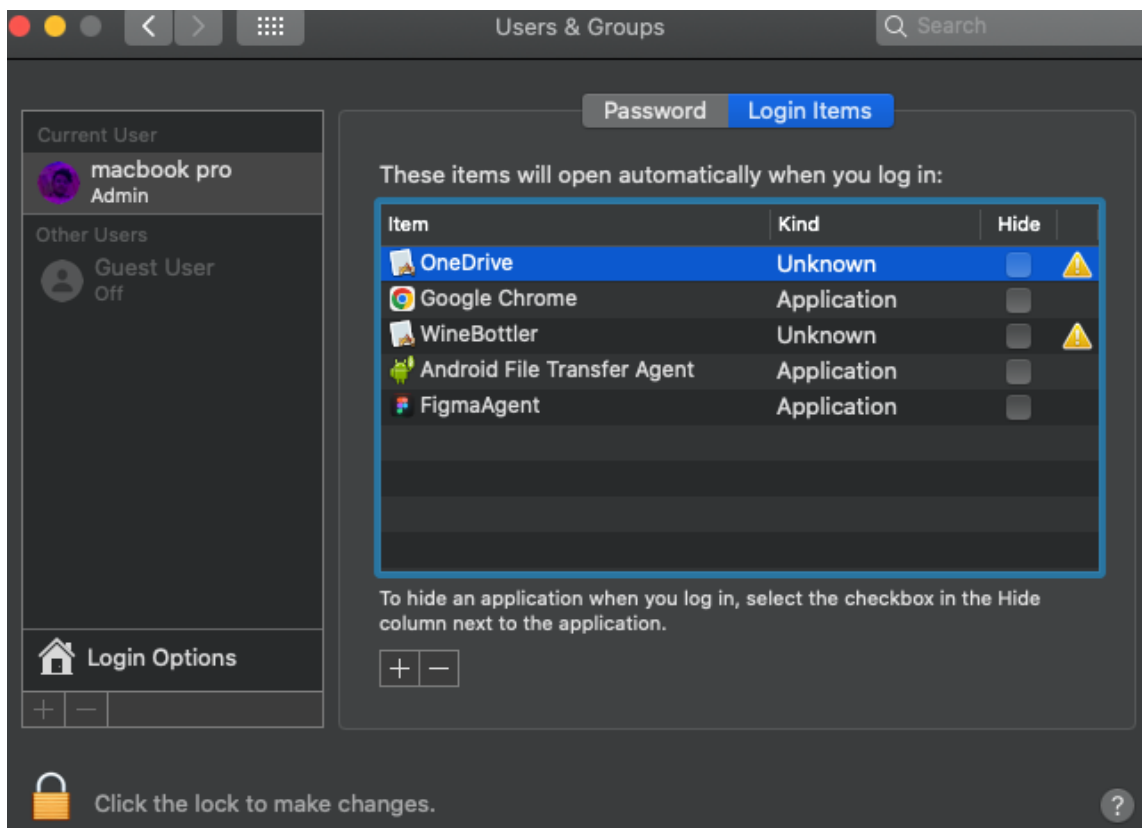
Complete all questions in 2:30 hrs

Let's get started with some helpful Batch scripts:

What is Windows Start-up? How can all the start-up programs be viewed?

ANS:

A startup program is a piece of software or a program that starts up as soon as the system turns on. Background services are often those that launch automatically.



The steps listed below can be used to view all startup programs. Such as :

- Open system preference
- Select user and groups
- Click login items

2. Write a batch script to display a simple "Hello YourName" message during the startup.

Note: Copy the file to the Startup folder

```

[macbookpro@Avishek-macbook-pro desktop % echo Hello Abhishek kc
Hello Abhishek kc
[macbookpro@Avishek-macbook-pro desktop % pwd
/Users/macbookpro/desktop
macbookpro@Avishek-macbook-pro desktop % 

```

3. Write a batch script to schedule to automatically back up important files and folders to a different location at a scheduled time.

```

D:\>set resource = c:/users/acer/important_files

D:\>set destination = D:/backups

D:\>xcopy /s/i
Invalid number of parameters
0 File(s) copied

D:\>echo files copied from Wed 01/25/2023 to 9:00:56.51 .
files copied from Wed 01/25/2023 to 9:00:56.51 .

D:\>pause
Press any key to continue . . . |

```

4. Write a Windows batch script that automatically deletes temporary files and clears out the recycle bin to free up space on the hard drive.

```

1 @echo off
2 del /s /q %temp%\*.*
3 rd /s /q C:\$Recycle.bin
4 echo Disk cleanup completed at %time% on %date% >> cleanup.log
5

```

5. Write a windows batch script that can be run to diagnose and troubleshoot common network issues

```

networkissue.bat
1 @echo off
2 ipconfig /all > ipconfig.txt
3 ping -n 3 192.168.1.1 > ping.txt
4 ping -n 3 www.google.com >> ping.txt
5 netstat -a > netstat.txt
6
7 echo Network diagnosis completed at %time% on %date% >> diagnose.log
8

```

6. Write a batch script that can be scheduled to shut down the computer at a specific time (using WINDOWS TASK SCHEDULER).

```

scheduler.bat
1  @echo off
2  set schedule=23:00
3  :check_time
4  set current=%time:~0,2%
5  if %current% GTR %schedule% goto shutdown
6  goto check_time
7
8  :shutdown
9  shutdown /s /t 0

```

7. Copy the following script Save this and run this in the Downloads directory or any directory you want.

```
@echo off
```

```

for %%a in (*.*) do (
    if "%%~xa" NEQ "" if "%%~dpxa" NEQ "%~dpx0" (
        if not exist "%%~xa" mkdir "%%~xa" (
            move "%%a" "%%~dpa%%~xa\"
        )
    )
)

```

```

script.bat
1  @echo off
2
3  for %%a in (*.*) do (
4      if "%%~xa" NEQ "" if "%%~dpxa" NEQ "%~dpx0" (
5          if not exist "%%~xa" mkdir "%%~xa" (
6              move "%%a" "%%~dpa%%~xa\"
7          )
8      )
9  )

```

What does the above script do? Elaborate on your answer.

ANS:

This script looks like a Windows batch routine that names folders after files to organize the files in the current directory. The current directory is indicated by the wildcard ".*," and the variable "%%a" is used to refer to the current file. The script uses a for loop to run through each file in the current directory. A file's expansions are determined by the first if statement, and its location in the current directory is determined by the second if statement. The "if not exist" statement is then used to determine whether a folder with the same name as the file extension already exists in the current directory.

The way the files in the current directory are organized by this script resembles a Windows batch process. The variable "%a" refers to the current file, while the wildcard "*" denotes the current directory. The script cycles through each file in the current directory using a for loop. The first if statement determines a file's expansions, and the second if statement determines a file's placement in the current directory. The next step is to check to see if the current directory already contains a folder with the same name as the file extension using the "if not exist" statement.