1.

# List all profiles in C:\Users\ and their last used date

Write-Host "Listing all profiles and their last accessed dates..."

// This line displays a message to the user indicating that the script will list all user profiles in the C:\Users\ directory along with their last accessed dates.

2.

$allProfileInfo = Get-ChildItem 'C:\Users\' -Directory | Select-Object Name, LastWriteTime

// This command retrieves all directories in C:\Users\, representing user profiles, and and the last modified times (LastWriteTime). selects their names

3.

foreach ($profileInfo in $allProfileInfo) {

Write-Host "Profile: $($profileInfo.Name) - Last Used: $($profileInfo.LastWriteTime)"

}

// This loop iterates over each profile, displaying its name and the last time it was modified.

4.

Write-Host "------------------------------------------------------------"

// Displays a line separator for better readability.

5.

# Ask the user for profiles to keep

$profilesToKeep = @("Default", $env:USERNAME)

// Initializes an array with profiles that should not be deleted, including the "Default" profile and the profile of the current user.

6.

do {

$profile = Read-Host -Prompt "Type the name of any profile you want to keep. Default, and profile you are currently signed in on will automatically be excluded from the deletion list. Press 'r' when ready"

if ($profile -ne 'r') {

$profilesToKeep += $profile

}

} while ($profile -ne 'r')

// This loop allows the user to enter the names of additional profiles they wish to keep. It ends when the user types 'r'.

7.

# Identify profiles to delete

$profilesToDelete = $allProfiles | Where-Object { $profilesToKeep -notcontains $\_ }

// Determines which profiles are not in the list of profiles to keep, marking them for deletion.

8.

# Delete the identified profiles and their registry keys

foreach ($profile in $profilesToDelete) {

# Construct the profile path

$profilePath = "C:\Users\$profile"

// Iterates through each profile marked for deletion, constructing the path to the profile directory.

9.

# Delete the profile folder

Remove-Item -Path $profilePath -Recurse -Force

// Deletes the profile folder and all its contents.

10.

# Find and delete the registry key associated with the profile

$regPath = "HKLM:\SOFTWARE\Microsoft\Windows NT\CurrentVersion\ProfileList"

$profileList = Get-ChildItem $regPath

foreach ($item in $profileList) {

$profileKey = (Get-ItemProperty -Path "$regPath\$($item.PSChildName)").ProfileImagePath

if ($profileKey -like "\*\$profile") {

Remove-Item -Path "$regPath\$($item.PSChildName)" -Force

}

}

}

// Searches for and deletes the registry key associated with each profile being deleted. This is necessary to completely remove the profile from the system.

11.

# List the remaining profiles after deletion

$remainingProfiles = Get-ChildItem 'C:\Users\' -Directory | Select-Object -ExpandProperty Name

Write-Host "Profiles deletion process is complete."

Write-Host "Here are the profiles remaining on your C:\ after running this program:"

foreach ($profile in $remainingProfiles) {

Write-Host " - $profile"

}

# Prompt for exit

Read-Host -Prompt "Press any key to exit..."

// Tells the user the script is done running, lists out the remaining profiles, and then finally prompts the user to press any key in order to exit this program.