Windows OS – 7 Days of Windows System-related Tasks

🎥 يمكنكمشاهدة الحلقة عبر هذا الرابط: https://www.youtube.com/watch?v=yRzB0chPnmw&t

📌 قواعد البحث عن الحلول

1. ابحث باستخدام Google أولًا.
2. استخدم ChatGPT للتوضيح فقط، وليس للحل المباشر.
3. تجنب النسخ المباشر للأسئلة في ChatGPT ❌.

< 💬 "Go and get it" – لا تنتظر كل شيء جاهزًا!

Hint: import platform might help ;)

Day 1: Windows Basics & System Information 🔥

Topics: OS Detection, Basic System Info, Environment Variables

:Exercises 🔹

1. .Write a script that prints the Windows version (e.g., Windows 10, 11)
2. .Print the computer name and the current logged-in user
3. .List all environment variables and their values
4. .Get and print the current working directory
5. .Find and display the system architecture (32-bit or 64-bit)
6. .Retrieve the current user's home directory path
7. .Write a script to detect if the system is Windows or not
8. .Print the system boot time
9. .Retrieve and print the CPU name and number of cores
10. .Write a script that checks if a specific environment variable (like PATH) exists

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Day 2: Processes, Tasks, and Services 🔥

Topics: Process Listing, Management, Services Control

:Exercises 🔹

1. .List all running processes along with their PID (Process ID)
2. .Write a script that kills a process by its name
3. .Start a new process (like opening Notepad) from Python
4. .Monitor and print CPU usage of the top 5 processes
5. .Detect if a given process (like explorer.exe) is running
6. .Write a script to restart a Windows service (like Spooler)
7. .List all services, their status (Running, Stopped), and startup type
8. .Write a script to start, stop, or restart a service programmatically
9. .Create a simple task manager clone that refreshes every 5 seconds
10. .Find and terminate all processes started by a specific user

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The Hacker Association

Day 3: File System & Automation 🔥

Topics: File Operations, Directories, File Metadata

:Exercises 🔹

1. List all files and folders in C:\Users\Public.
2. Create a script that copies a file from one location to another.
3. Write a Python tool that monitors a directory for file changes.
4. Find the size of every file inside a specific folder.
5. Automatically create daily backups of a folder.
6. Write a script that searches for a file by name across a directory tree.
7. Monitor and report any new files created in C:\Windows\Temp.
8. Create a script that zips and unzips folders.
9. List all files that were modified in the last 24 hours.
10. Write a tool that finds all files bigger than 100MB in a directory.
