

# TRAINING DAY 20 REPORT:

- **Introduction to Batch File**

## **What is a Batch File?**

A **Batch File** is a text file with a .bat or .cmd extension that contains a list of **commands** to be executed in sequence by the **Windows Command Prompt (cmd.exe)**.

## **Why Use Batch Files?**

- Automate routine tasks
- Save time executing multiple commands
- Simplify administrative work

### **Example:**

```
@echo off  
echo Hello, welcome to batch programming!  
pause
```

- **Batch File Program**

This section includes actual **examples of batch programs**.

### **Example 1: Open Notepad**

```
@echo off  
start notepad.exe
```

### **Example 2: Create Folder and File**

```
@echo off  
mkdir MyFolder  
cd MyFolder  
echo Hello World > myfile.txt
```

These demonstrate how to:

- Start applications
- Create folders/files

- Use redirection (>) to write to files

- **Start in Batch File Programming**

This section would guide beginners to start **writing and running** batch scripts.

**Getting Started:**

1. Open Notepad
2. Write commands like:

```
@echo off  
echo This is my first batch script.  
pause
```

3. Save as myfirst.bat
4. Double-click to run

**Basic Concepts:**

- @echo off: Hides command being executed
- pause: Waits for user input
- rem: Adds comments
- %variable%: Access environment or user-defined variables

- **Batch Script - Folder Bomber**

**This is a destructive script (for educational use only).**

**What is a Folder Bomber?**

It's a script that **creates a large number of folders** rapidly, possibly crashing or freezing the system.

**Example:**

```
@echo off:loop  
md %random%  
goto loop
```

- md: Command to make directories
- %random%: Generates random folder names
- goto loop: Infinite loop

## • **More About Batch File Programming**

This dives deeper into:

**Conditional statements:** IF, IF EXIST

**Loops:** FOR, GOTO

**User Input:** SET /P

### **Example – Conditional Script:**

```
@echo off
set /p name=Enter your name:
if "%name%"=="Admin" (
echo Welcome Admin
) else (
echo Access Denied
)
```

## • **How to Collect System Information Using Batch File Programming**

This script uses built-in Windows commands to gather system info.

### **Example:**

```
@echo off
systeminfo > sysinfo.txt
ipconfig /all >> sysinfo.txt
netstat -an >> sysinfo.txt
echo System information collected in sysinfo.txt
pause
```

- systeminfo: Gets OS details
- ipconfig /all: Network info

- netstat -an: Active network connections

Used in system audits and cybersecurity footprinting.

- **How to Create a Matrix Using Batch File Programming**

This script creates a **Matrix-style green code rain effect** in the console window.

**Example:**

```
@echo off
color 0a
:top
echo %random%%random%%random%%random%%random%%random%
%random%
goto top
```

color 0a: Black background and green text

%random%: Generates endless numbers

goto top: Loop to simulate falling text

Visual effect only, popular in hacking demos.

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