📝 1. Hello World Script

Goal: Print a message to the screen.

```bat
Copy code@echo off
echo Hello, World!
pause
```

Explanation:

- `@echo off`: Hides the command being executed (makes output cleaner).
- `echo`: Displays text to the screen.
- `pause`: Waits for the user to press a key before closing.

📑 2. Creating a Folder

Goal: Create a folder (e.g. `NewFolder`).

```bat
Copy code@echo off
mkdir NewFolder
pause
```

Explanation:

- `mkdir`: Creates a new directory/folder.
- `pause`: Waits for user input before closing.

📋 3. Simple File Copy

Goal: Copy a file from one folder to another.

```bat
Copy code@echo off
copy "C:\path\to\source\file.txt" "C:\path\to\destination\file.txt"
pause
```

Explanation:

- `copy`: Copies files from one location to another.
- `pause`: Lets you see the result before closing.

🖱️ 4. Opening a Program

Goal: Launch a program (e.g., Notepad).

```bat
Copy code@echo off
start notepad.exe
pause
```

Explanation:

- `start` : Launches the specified program (in this case, Notepad).
- `pause` : Allows you to see the result and not immediately close the script.

🔄 5. Simple Loop

Goal: Print numbers from 1 to 5.

```
batCopy code@echo off
for /l %%i in (1,1,5) do (
  echo %%i
)
pause
```

Explanation:

- `for /l %%i in (start, step, end)` : Loops through a range of numbers.
- `%%i` : The loop variable (a number in this case).
- `echo %%i` : Prints each number during the loop.
- `pause` : Waits for user input before closing.

📅 6. Display the Current Date and Time

Goal: Show the current system date and time.

```
batCopy code@echo off
echo The current date is: %date%
echo The current time is: %time%
pause
```

Explanation:

- `%date%` and `%time%` : System variables that contain the current date and time.
- `pause` : Lets you view the result.

🧹 7. Deleting a File

Goal: Delete a specific file.

```
batCopy code@echo off
del "C:\path\to\file.txt"
pause
```

Explanation:

- `del` : Deletes a file at the given path.
- `pause` : Lets you confirm the deletion before closing.

🔑 8. Prompt for User Input

Goal: Ask the user for their name and greet them.

```
batCopy code@echo off
set /p name=Enter your name:
echo Hello, %name%!
pause
```

Explanation:

- `set /p` : Prompts the user to enter data.

- `%name%` : Uses the entered value.

- `echo` : Prints the result.

🔒 9. Check if a Folder Exists

Goal: Check if a folder exists, and create it if not.

```
batCopy code@echo off
if not exist "C:\path\to\folder" (
    mkdir "C:\path\to\folder"
    echo Folder created!
) else (
    echo Folder already exists.
)
pause
```

Explanation:

- `if not exist` : Checks if the folder exists.

- `mkdir` : Creates the folder if it doesn't exist.

- `pause` : Lets you see the result.

👨‍💻 10. Open Multiple Programs

Goal: Open several programs at once.

```
batCopy code@echo off
start notepad.exe
start calc.exe
start mspaint.exe
pause
```

Explanation:

- `start` : Launches the programs simultaneously.

- `pause` : Lets you see the result.

🧠 Summary of Common Batch Commands:

- `@echo off` : Turns off command display for cleaner output.
- `echo` : Displays messages.
- `pause` : Waits for user interaction before closing.
- `mkdir` : Creates directories/folders.
- `copy` : Copies files.
- `del` : Deletes files.
- `start` : Opens programs or websites.
- `for` : Loops (used for repetition).
- `set /p` : Prompts the user for input.
- `if` : Conditional checks.