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Follow the instructions below and provide screenshot of your step by step task as a proof of your activity.

Objective:

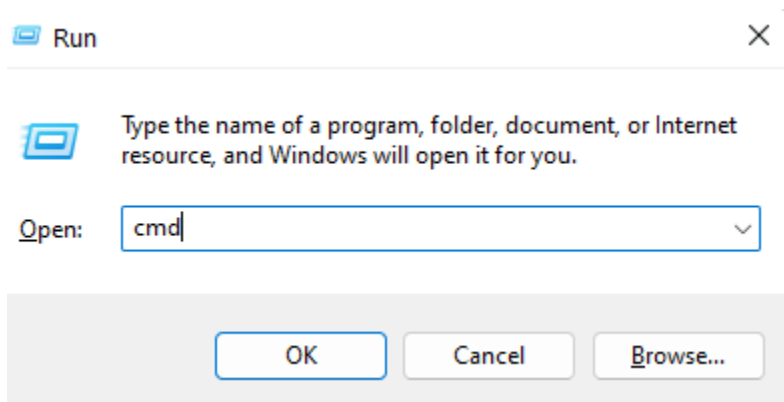
To guide students in creating and executing a simple batch file in MS-DOS (Command Prompt) on Windows.

Step 1: What is a Batch File?

A batch file is a text file containing a series of commands to be executed by the command-line interpreter. When you execute a batch file, it runs the commands in the order they are written.

Step 2: Open Command Prompt

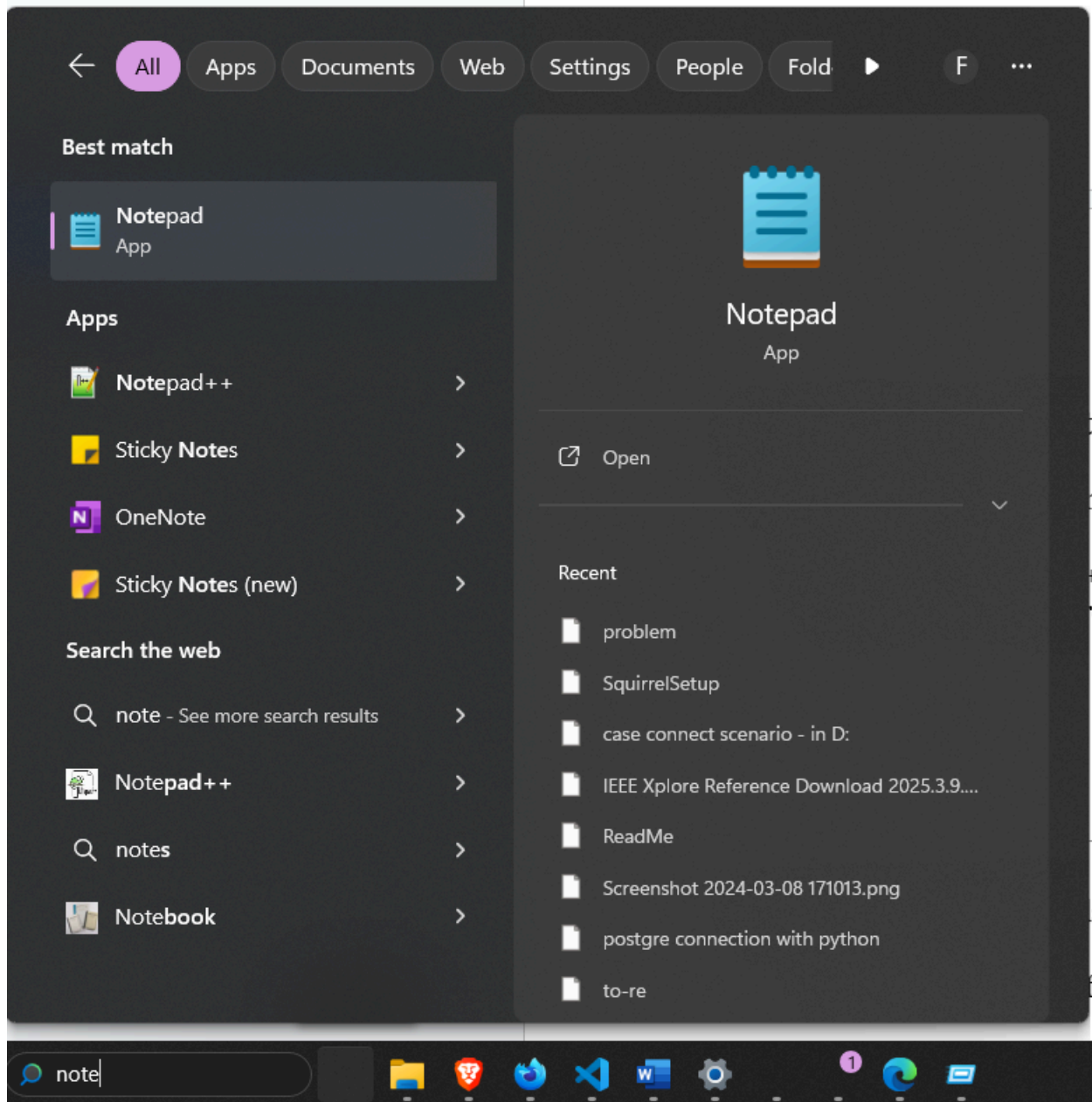
1. **Press** Windows Key + R to open the "Run" dialog box.
2. **Type** cmd and **press** Enter. This opens the Command Prompt.



Step 3: Open a Text Editor

To create a batch file, you can use any text editor, such as Notepad.

1. **Press** Windows Key + S to open the search bar.
2. **Type** Notepad and **press** Enter to open it.



Step 4: Write Commands in the Batch File

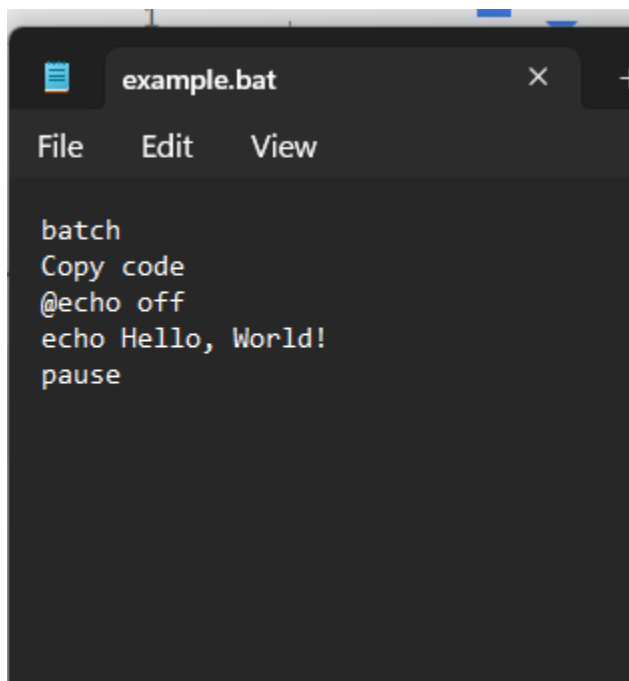
1. In Notepad, **type** the following commands:

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

- @echo off: Prevents displaying the command itself (only shows the output).
 - echo Hello, World!: Prints "Hello, World!" on the screen.
 - pause: Pauses the script and waits for the user to press a key before continuing.
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Step 5: Save the File with a .bat Extension

1. In Notepad, **click** on File and then Save As.
2. **In the "Save as type" dropdown**, select All Files.
3. **Name** the file example.bat (be sure to include the .bat extension).
4. **Save** it to a directory you can easily find, like C:\.



Step 6: Execute the Batch File

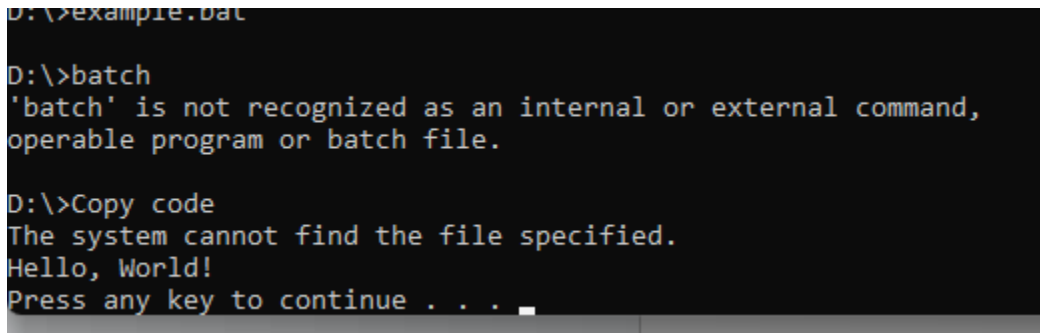
1. **Navigate to the location** where you saved the `example.bat` file using Command Prompt. For example, if you saved it in `C:\`, you can type:

```
cmd
Copy code
cd C:\
```

2. **Type the name of the batch file** to run it:

```
cmd
Copy code
example.bat
```

You should see the output "Hello, World!" and the message "Press any key to continue..." when you run the file.

A screenshot of a Windows Command Prompt window with a black background and white text. The prompt shows the user navigating to a directory and running a batch file. The output of the batch file is visible, including a greeting and a pause command.

```
D:\>example.bat

D:\>batch
'batch' is not recognized as an internal or external command,
operable program or batch file.

D:\>Copy code
The system cannot find the file specified.
Hello, World!
Press any key to continue . . .
```

Step 7: Create a More Complex Batch File

To extend your learning, you can create a more advanced batch file. For example:

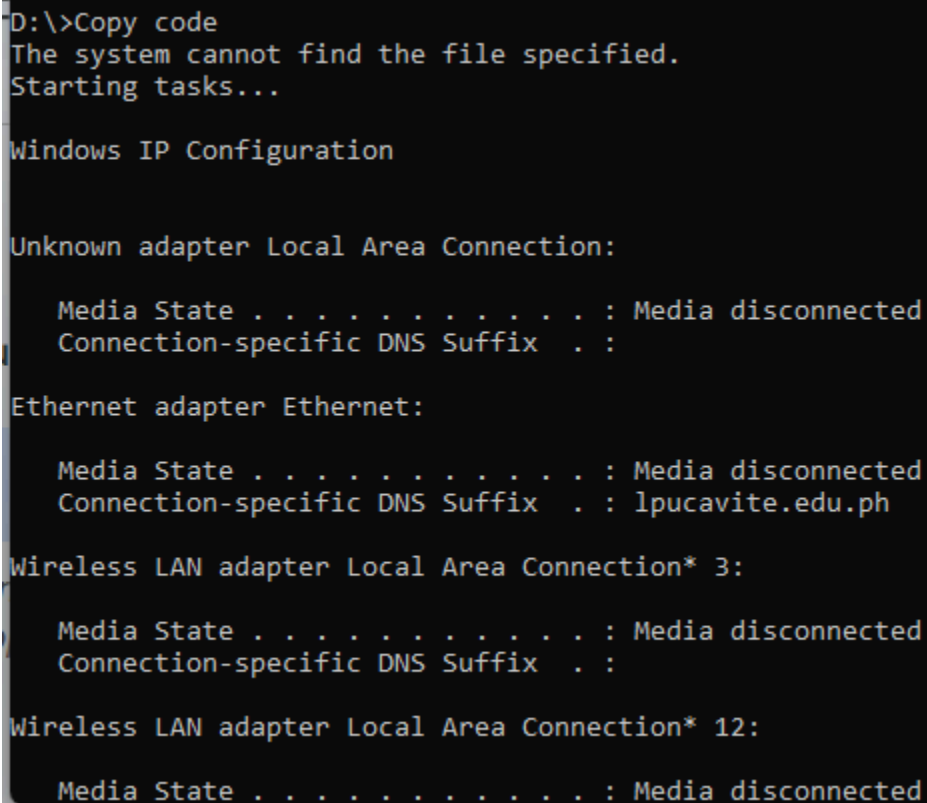
```
batch
Copy code
@echo off
echo Starting tasks...
ipconfig
ping google.com
pause
```

- This script will:
 - Display network information using the `ipconfig` command.
 - Attempt to `ping` Google to check the network connection.
 - Pause the script before closing.

Step 8: Test the Complex Batch File

1. Follow the same procedure to save this new batch file, for example, `network_check.bat`.
2. **Execute** it in the Command Prompt by typing:

```
cmd
Copy code
network_check.bat
```



```
D:\>Copy code
The system cannot find the file specified.
Starting tasks...

Windows IP Configuration

Unknown adapter Local Area Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : lpucavite.edu.ph

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 12:

    Media State . . . . . : Media disconnected
```

Step 9: Troubleshooting

If the batch file does not run:

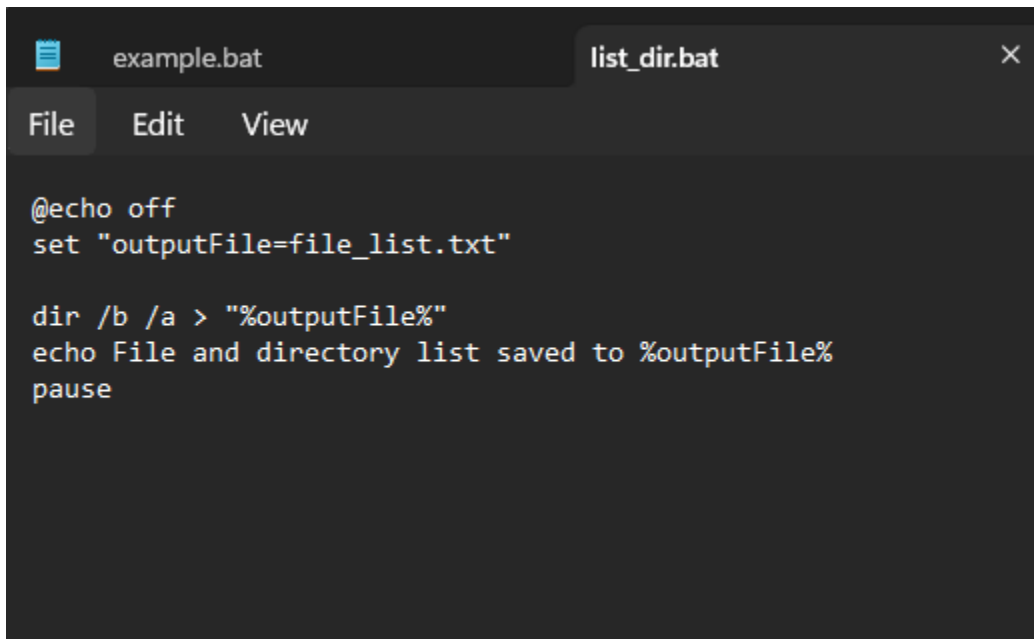
- Ensure the file has a `.bat` extension.
 - Check the command prompt's working directory. You need to be in the same directory where the `.bat` file is located, or use the full path to the file.
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Conclusion

Batch files are a simple yet powerful way to automate tasks on Windows using the command prompt. You can create, save, and execute these files to carry out a series of commands efficiently.

Additional Exercises

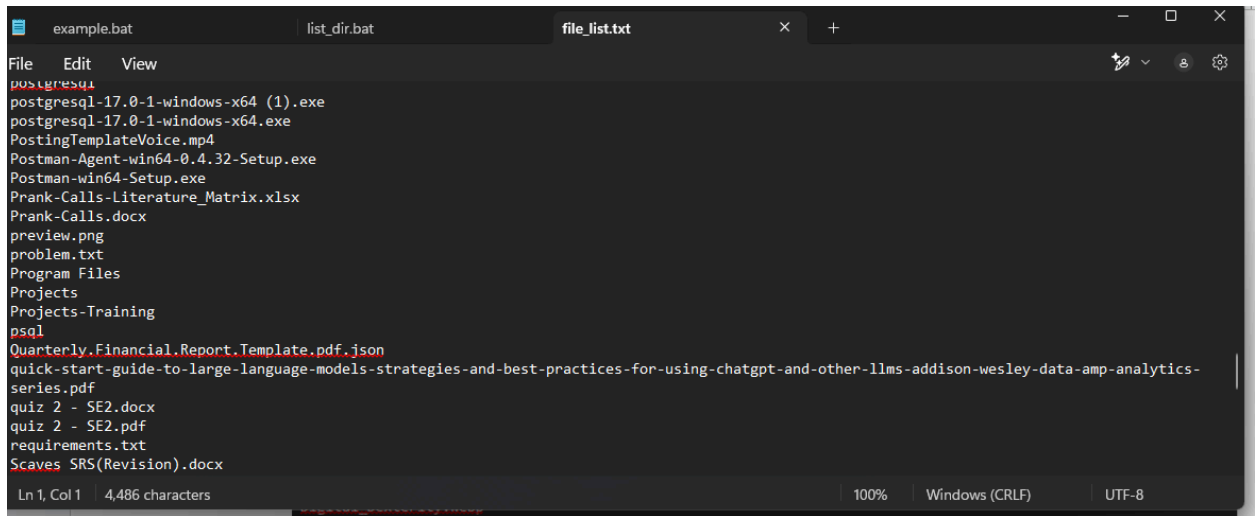
1. Create a batch file that lists all files in a directory.



```
example.bat  list_dir.bat  X
File  Edit  View

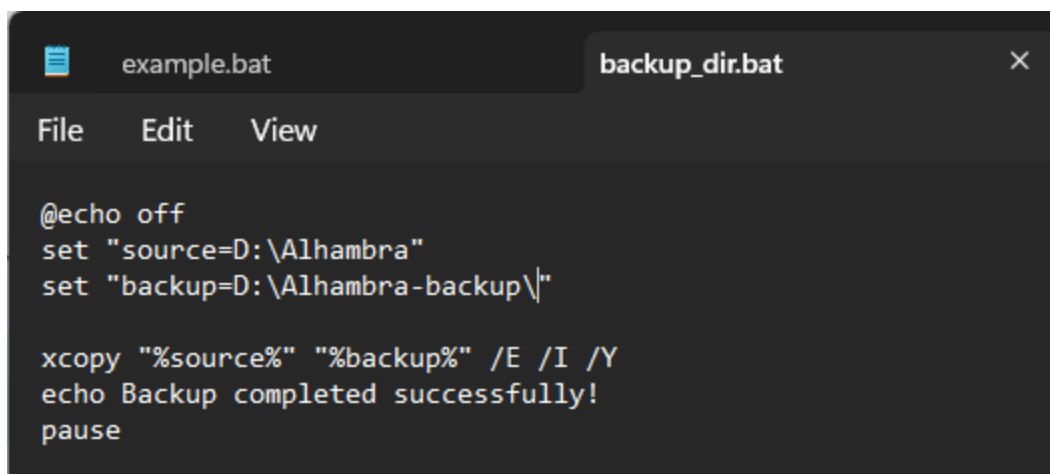
@echo off
set "outputFile=file_list.txt"

dir /b /a > "%outputFile%"
echo File and directory list saved to %outputFile%
pause
```

A screenshot of a Notepad window with three tabs: 'example.bat', 'list_dir.bat', and 'file_list.txt'. The 'file_list.txt' tab is active, displaying a list of files and folders. The status bar at the bottom indicates 'Ln 1, Col 1' and '4,486 characters'.

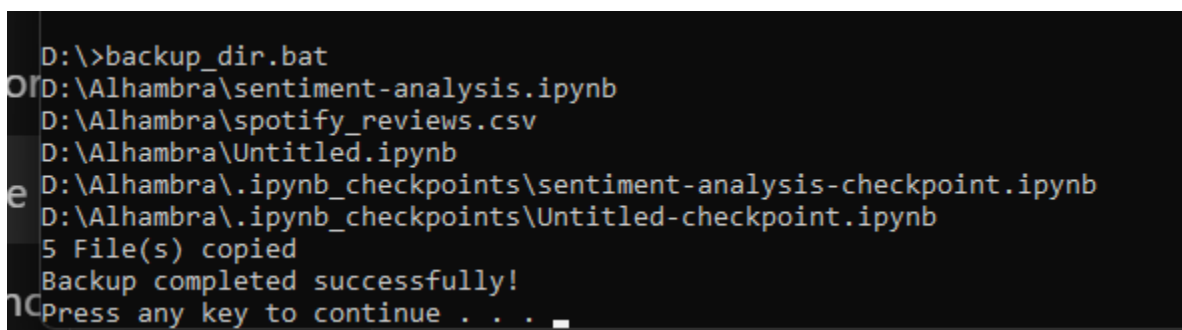
```
File Edit View
postgres
postgresql-17.0-1-windows-x64 (1).exe
postgresql-17.0-1-windows-x64.exe
PostingTemplateVoice.mp4
Postman-Agent-win64-0.4.32-Setup.exe
Postman-win64-Setup.exe
Prank-Calls-Literature_Matrix.xlsx
Prank-Calls.docx
preview.png
problem.txt
Program Files
Projects
Projects-Training
psql
Quarterly.Financial.Report.Template.pdf.json
quick-start-guide-to-large-language-models-strategies-and-best-practices-for-using-chatgpt-and-other-llms-addison-wesley-data-amp-analytics-series.pdf
quiz 2 - SE2.docx
quiz 2 - SE2.pdf
requirements.txt
Scaves SRS(Revision).docx
Ln 1, Col 1 | 4,486 characters | 100% | Windows (CRLF) | UTF-8
```

2. Create a batch file that backs up a folder by copying it to another location.

A screenshot of a Notepad window with two tabs: 'example.bat' and 'backup_dir.bat'. The 'backup_dir.bat' tab is active, showing a batch script for backing up a folder. The status bar at the bottom indicates 'Ln 1, Col 1' and '4,486 characters'.

```
File Edit View
@echo off
set "source=D:\Alhambra"
set "backup=D:\Alhambra-backup\"

xcopy "%source%" "%backup%" /E /I /Y
echo Backup completed successfully!
pause
```

A screenshot of a command prompt window showing the execution of the 'backup_dir.bat' script. The output shows the files being copied and a confirmation message.

```
D:\>backup_dir.bat
D:\Alhambra\sentiment-analysis.ipynb
D:\Alhambra\spotify_reviews.csv
D:\Alhambra\Untitled.ipynb
D:\Alhambra\.ipynb_checkpoints\sentiment-analysis-checkpoint.ipynb
D:\Alhambra\.ipynb_checkpoints\Untitled-checkpoint.ipynb
5 File(s) copied
Backup completed successfully!
Press any key to continue . . .
```

