

# **Placement Empowerment Program**

## ***Cloud Computing and DevOps Centre***

Automate File Copying with a Script

Create a script to copy files from one folder to another automatically.

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# Introduction

Automating repetitive tasks like file copying can save time, reduce errors, and improve efficiency in various scenarios, such as managing backups, organizing files, or syncing data between directories. This POC script will demonstrate how to copy files automatically from one folder to another, using a simple yet effective approach.

## Overview

Streamline file transfers with this automated script, which securely replicates files from source to destination while preserving data integrity. Tailor it to your needs with customizable filters by file type, date, and size, and deploy it using Python, Shell scripting, or PowerShell.

## Objectives

The key objectives of this automation task are:

**Simplify File Management:** Reduce manual effort in moving or copying files between folders.

**Improve Efficiency:** Automate the process to save time and improve productivity.

**Ensure Data Integrity:** Accurately copy files without any corruption or loss.

**Customizable Workflow:** Enable flexibility to meet specific requirements (e.g., filtering files by type or date).

**Scalable Solution:** Allow the script to handle a large number of files efficiently.

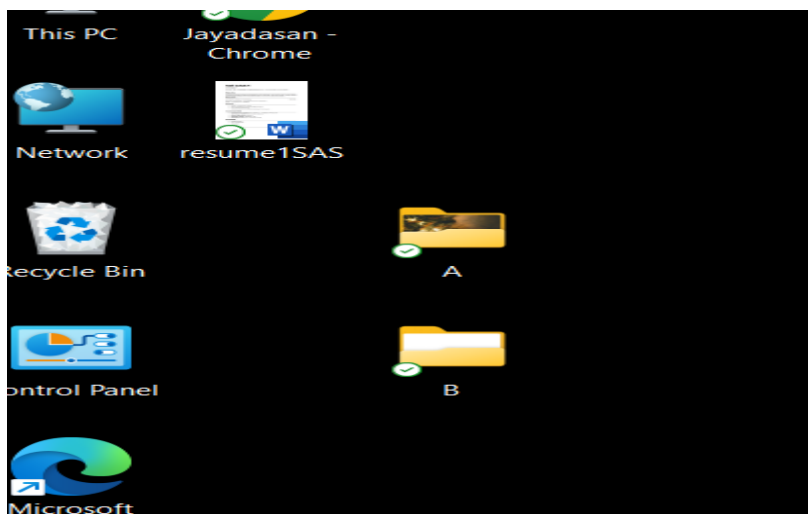
# Importance

- 1. Time-Saving:** Automating the process eliminates the need for manual intervention, saving hours of work.
- 2. Error Reduction:** Reduces human errors, such as forgetting to copy specific files or overwriting important ones.
- 3. Improved Organization:** Helps maintain a consistent structure for file storage and backups.
- 4. Useful in Various Scenarios:** This approach is valuable for IT professionals, businesses, and individuals dealing with frequent file transfers or backups.
- 5. Scalability and Reusability:** Once created, the script can be reused and scaled up to handle more complex tasks.

## Step-by-Step Overview

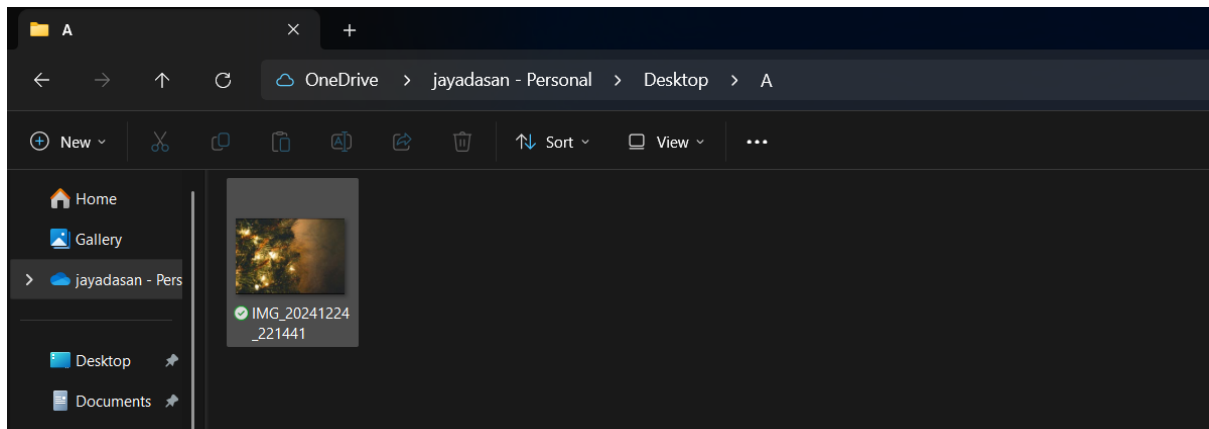
### Step 1

Create two folders named Source and Destination



## Step 2

Store some files inside it to automate it



## Step 3

Open the note pad and type the code and make sure that in set SOURCE give your Source folder address and in set DESTINATION give your Destination Folder address

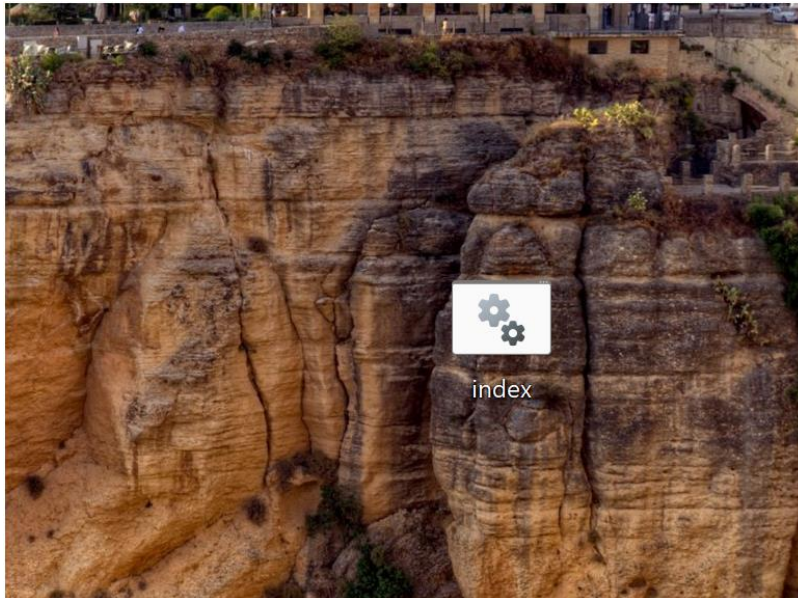
```
@echo off

rem Define source and destination folders
set SOURCE=C:\Users\jayadasan\OneDrive\Desktop\A
set DESTINATION=C:\Users\jayadasan\OneDrive\Desktop\B
rem Copy files from source to destination
xcopy "%SOURCE%\*" "%DESTINATION%" /E /Y

echo Files copied successfully!
pause
```

## Step 4

Then save the file in desktop with .bat extension (eg : index.bat) so the file looks like this



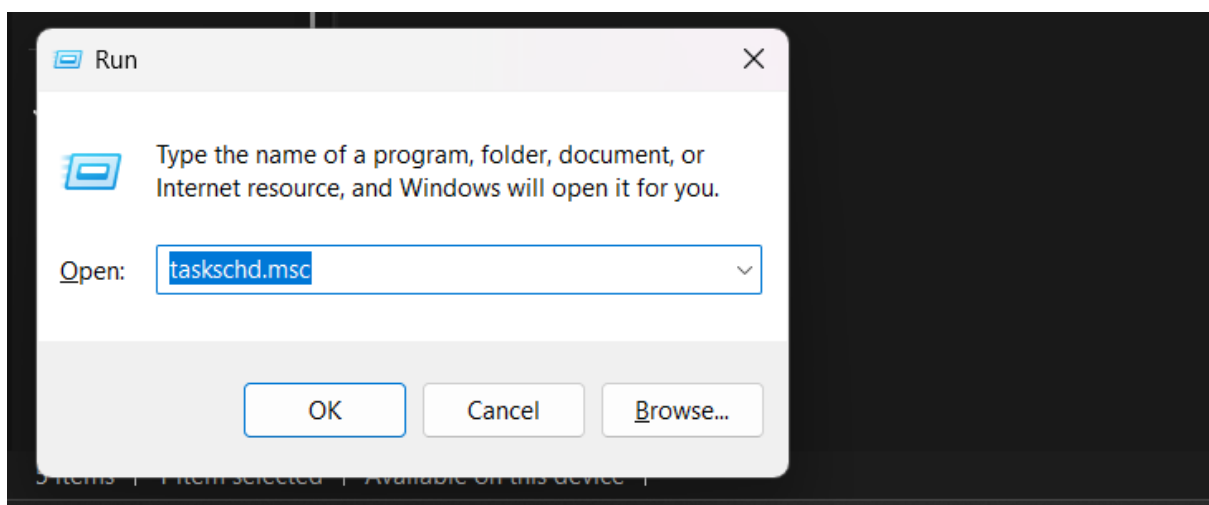
## Step 5

Press **Win** + **R** on your keyboard.

A small "Run" dialog box will pop up.

Type **taskschd.msc** (without quotes) in the Run box.

Press Enter or click OK. This will open the Task Scheduler window.

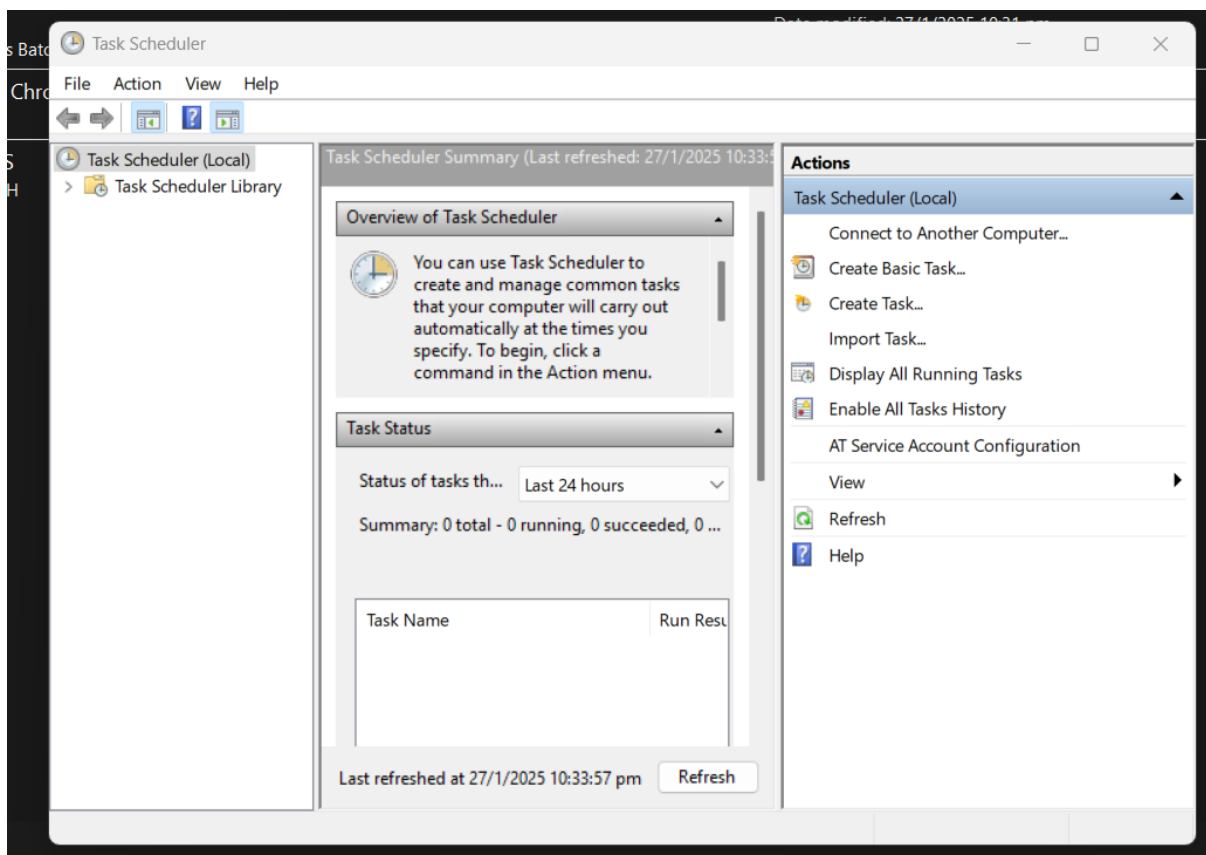


## Step 6

In the Task Scheduler window, look to the right-hand side for a button called "Create Basic Task".

Click it.

A wizard will open to guide you through the setup.



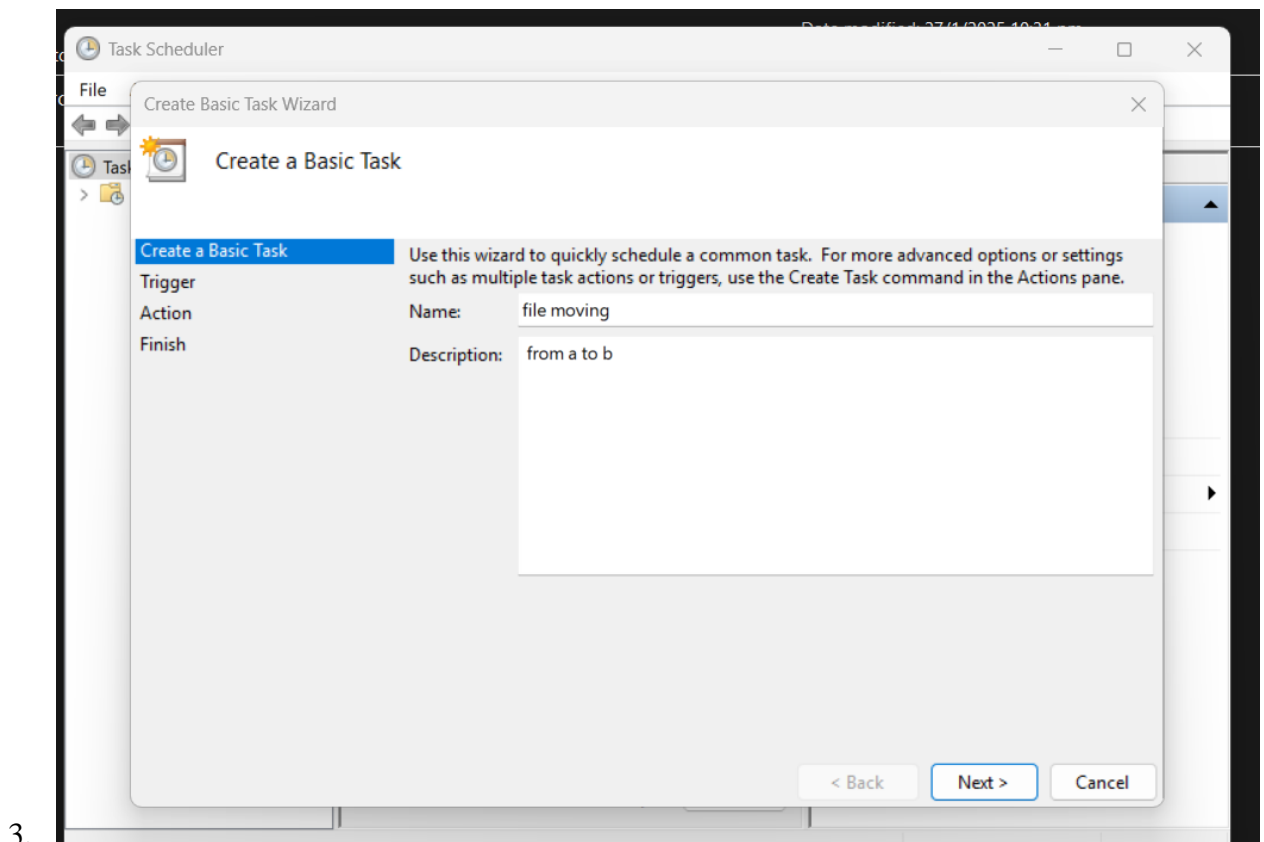
## Step 7

1. Enter a Name for the Task:

For example: "Automate File Copying".(This can be anything that helps you remember what the task does.)

Optionally, you can add a description like "Copies files from folder A to folder B".

2. Click Next to continue.



- 3.

## Step 8

Choose a Schedule:

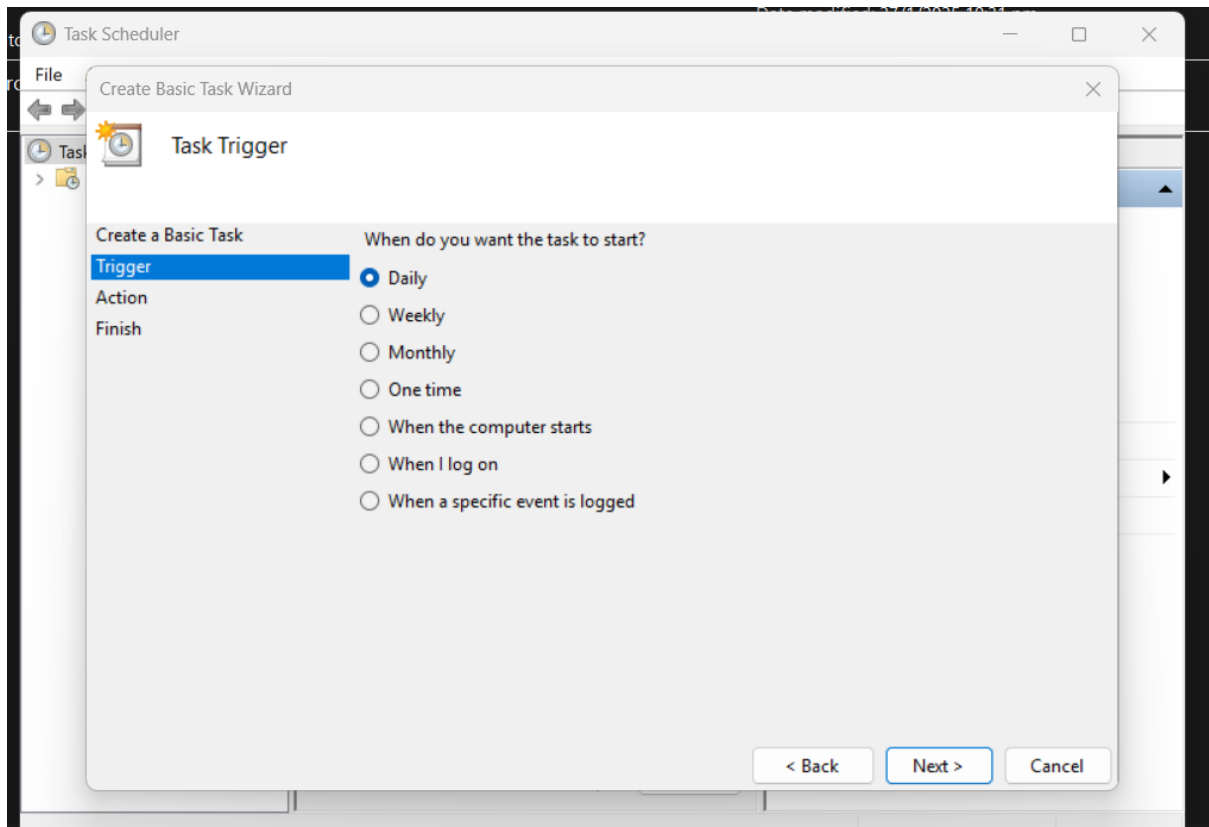
You will see options like:

Daily (runs every day).

Weekly (runs once a week).

One time (runs only once at a specific time).

Choose what works for you (e.g., Daily) and click Next.



## Step 9

Set the Time and Frequency:

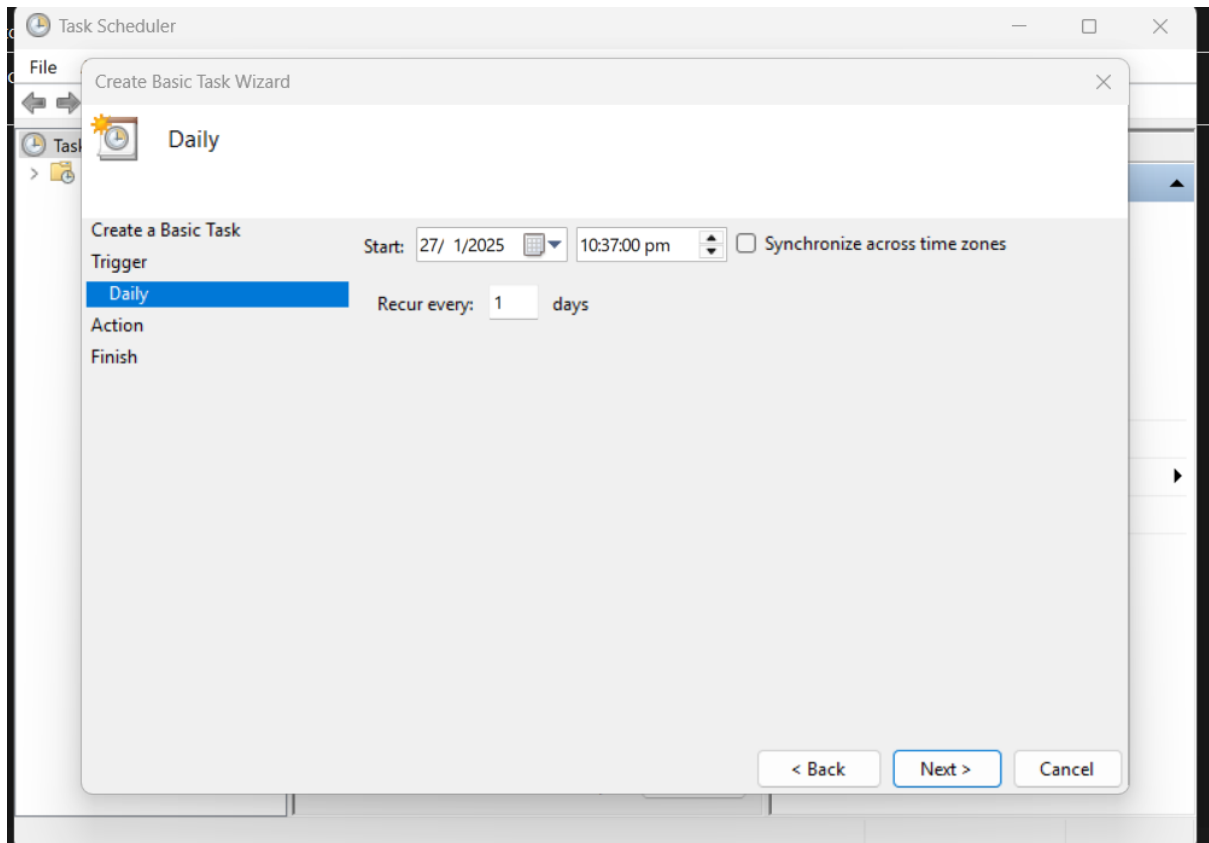
If you chose Daily, specify:

The start date (it defaults to today).

The time (e.g., 10:00 AM).

Click Next to move on.





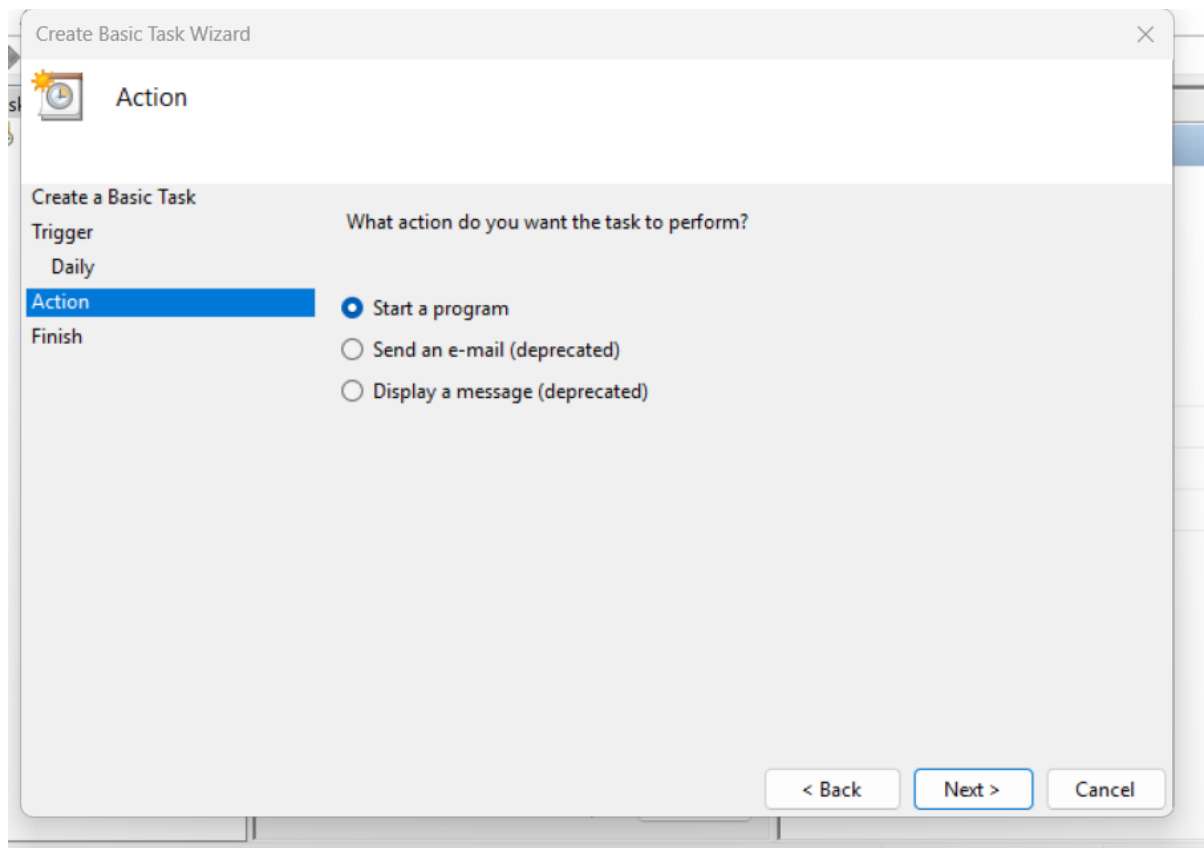
## Step 10

### Set the Action

Now, we tell Task Scheduler what to do when it runs.

Select "Start a Program":

On the "Action" screen, select the option "Start a Program" and click Next.



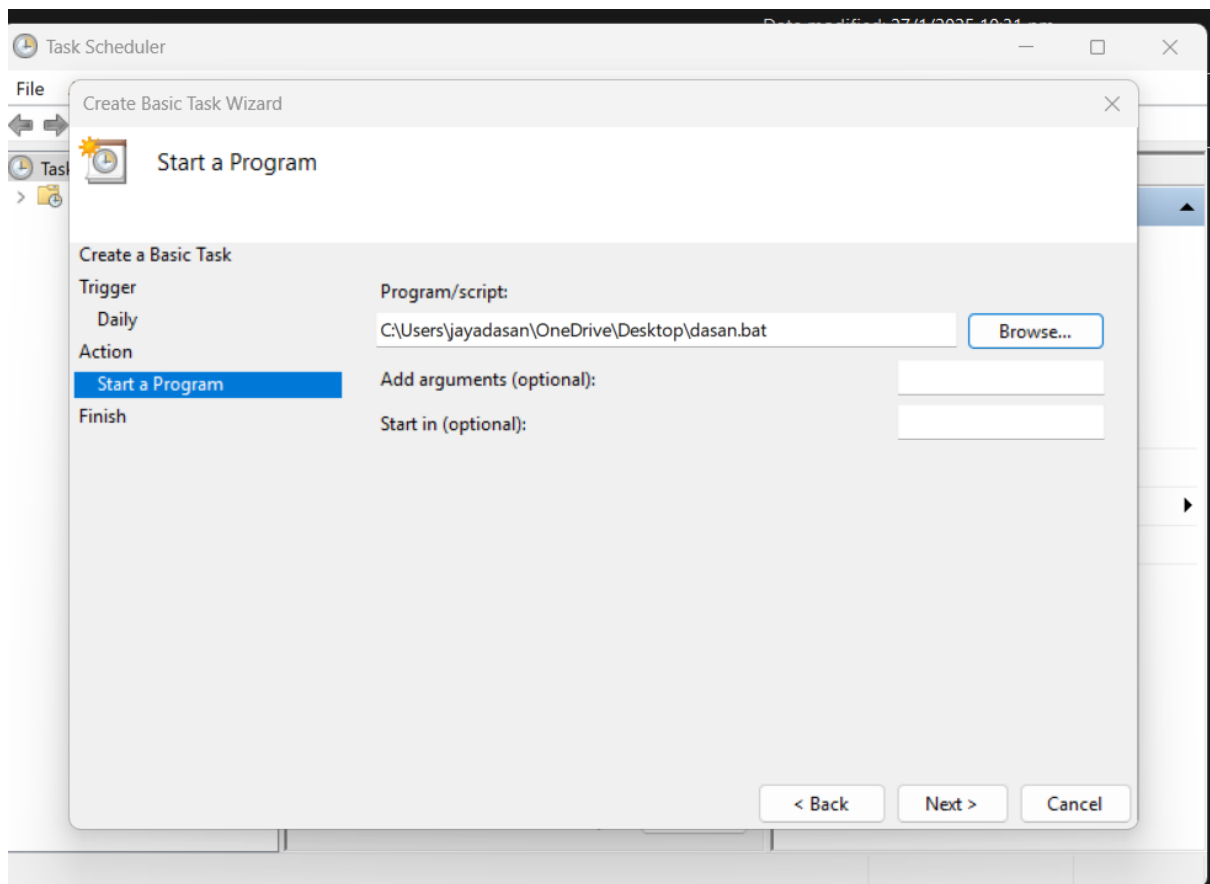
## Step 11

Point to the Program or Script:

In the Program/script field, click **Browse** and navigate to the location of your .bat file.

Example: If your script is named index.bat and saved on the desktop, navigate to that file and select it.

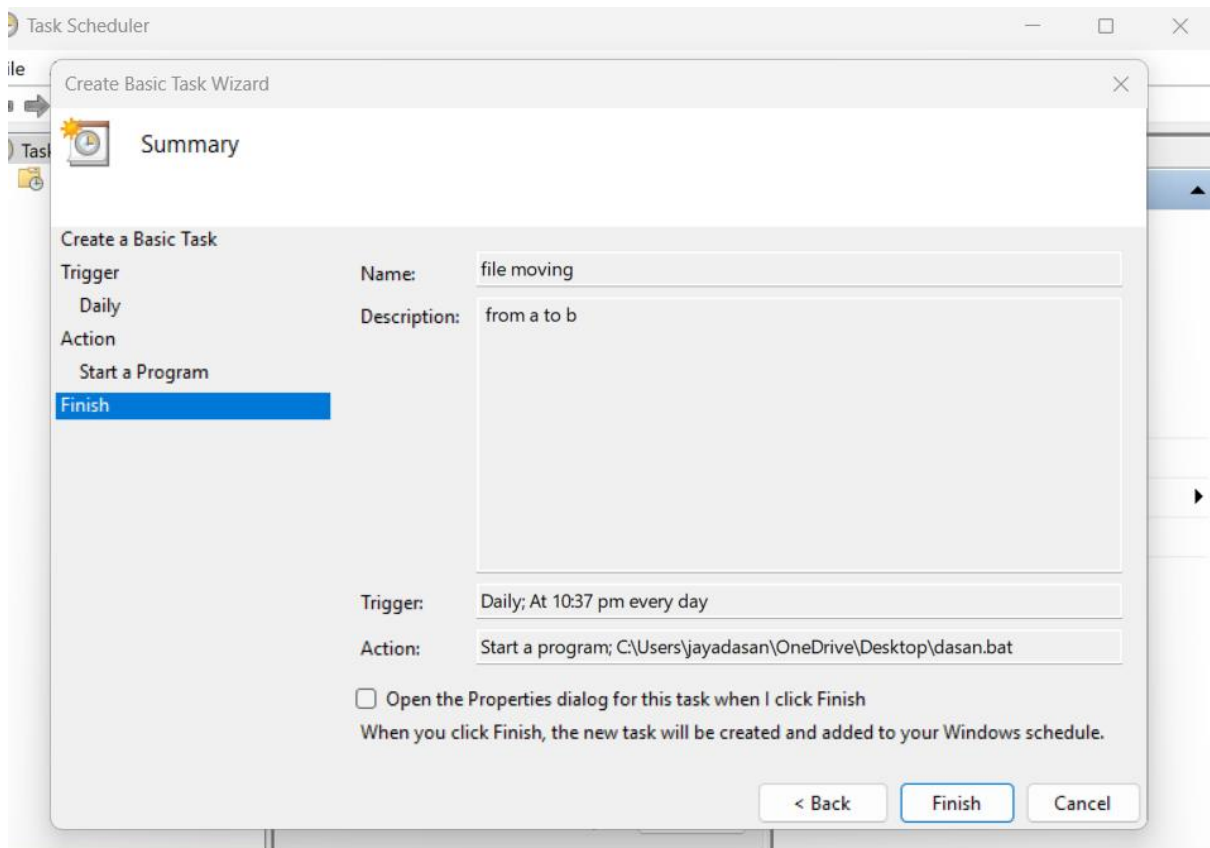
Click Next.



## Step 12

### Review and Finish

Click **Finish** to save and schedule the task.



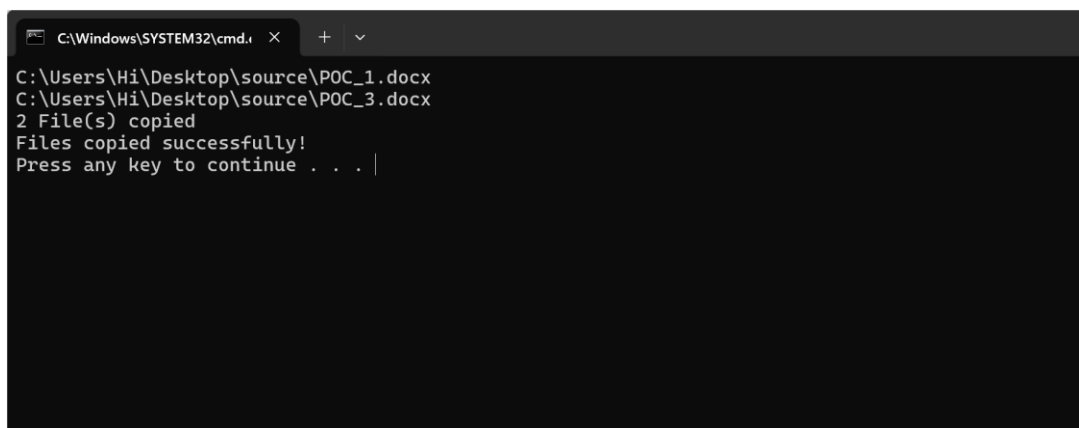
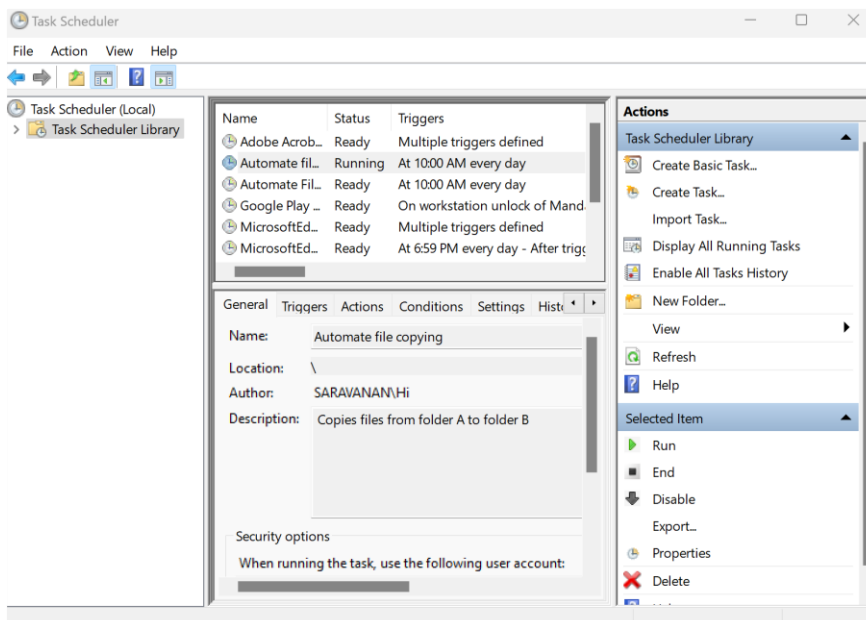
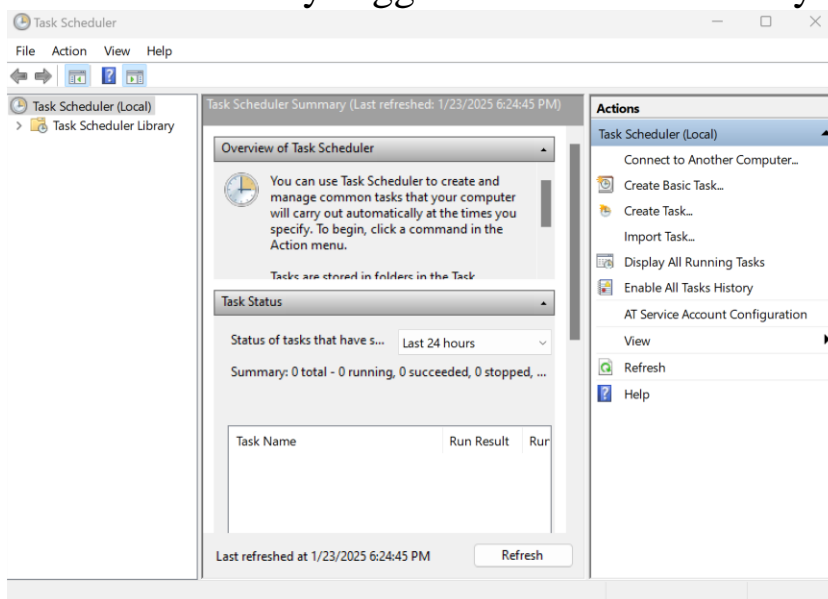
## Step 13

In Task Scheduler, go to the **Task Scheduler Library** (on the left-hand side).

Find your task (it should have the name you gave it, e.g., "Automate File Copying").

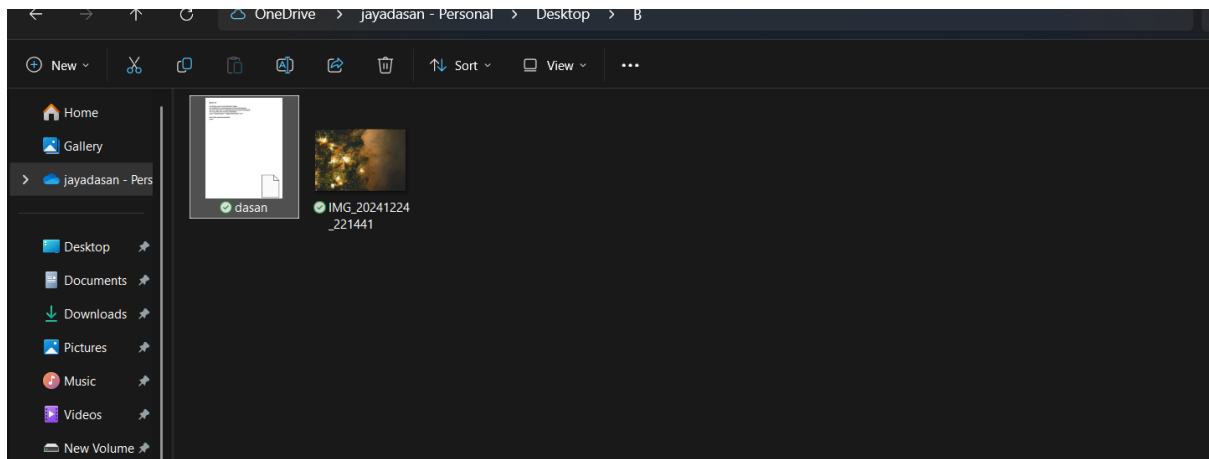
Right-click the task and select **Run**.

This will manually trigger the task immediately.



# Step 14

If your task was set up to copy files, go to the destination folder and confirm that the files have been copied.



## Outcome

By completing this Proof of Concept (PoC) of automating a task using Task Scheduler, you will:

1. Successfully set up an automated task that triggers on a schedule or when manually run.
2. Execute a batch script to copy files from a source folder to a destination folder automatically.

3. Understand how to use Task Scheduler to automate repetitive tasks in Windows.
4. Gain familiarity with task triggers, actions, and conditions in Task Scheduler.
5. Save time and ensure consistent execution of file operations without manual intervention.
6. Optionally test the task to verify that it runs as expected and achieves the desired outcome.
7. Enhance your workflow automation skills with practical hands-on experience.