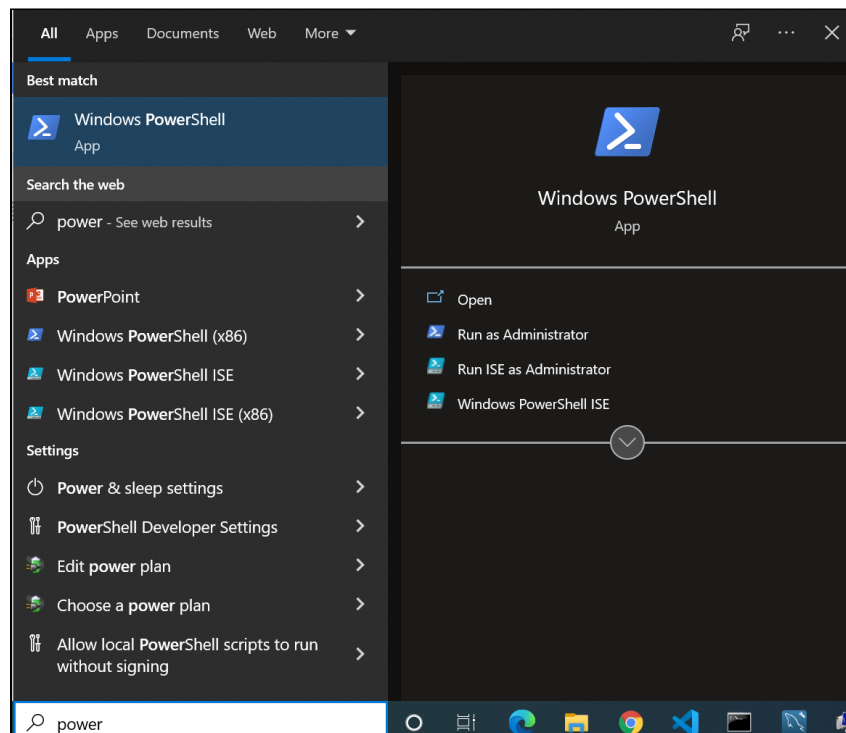


Run TS files in VSC

1. As you all know we have to convert .ts files to .js files to execute typescript code.
2. We cannot run TS files from VS Code directly. In case if we try to execute we get an error as shown below.

```
PS C:\Users\allam\Desktop\VS Workspace\Typescript> tsc Demo.ts
tsc : File C:\Users\allam\AppData\Roaming\npm\tsc.ps1 cannot be loaded because running scripts is disabled on this system.
For more information, see about_Execution_Policies at https:/go.microsoft.com/fwlink/?LinkID=135170.
At line:1 char:1
+ tsc Demo.ts
+ ~~~
+ CategoryInfo          : SecurityError: (:) [], PSSecurityException
+ FullyQualifiedErrorId : UnauthorizedAccess
```

3. To execute TS files from VS Code, we have to make some changes to execution policy in Windows.
4. In the search bar, search for Powershell, right click on it and run as Administrator.



5. Execute the command **Get-ExecutionPolicy -List**

```
Administrator: Windows PowerShell

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Windows\system32> Get-ExecutionPolicy -List

Scope ExecutionPolicy
-----
MachinePolicy Undefined
UserPolicy Undefined
Process Undefined
CurrentUser Undefined
LocalMachine Undefined
```

6. We have to make the LocalMachine ExecutionPolicy Unrestricted. To do so, run the below command **Set-ExecutionPolicy Unrestricted** and type **Y** to confirm the changes.
7. Now run the command **Get-ExecutionPolicy -List** to see the change.

```
Administrator: Windows PowerShell

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Windows\system32> Get-ExecutionPolicy -List

Scope ExecutionPolicy
-----
MachinePolicy Undefined
UserPolicy Undefined
Process Undefined
CurrentUser Undefined
LocalMachine Undefined

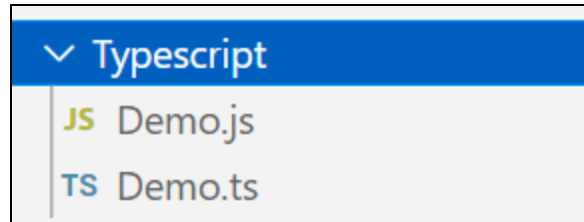
PS C:\Windows\system32> Set-ExecutionPolicy Unrestricted

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose
you to the security risks described in the about_Execution_Policies help topic at
https://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): Y
PS C:\Windows\system32> Get-ExecutionPolicy -List

Scope ExecutionPolicy
-----
MachinePolicy Undefined
UserPolicy Undefined
Process Undefined
CurrentUser Undefined
LocalMachine Unrestricted

PS C:\Windows\system32>
```

8. Now go to VS Code terminal and run the same command **tsc filename.ts** after going to the folder where your .ts file is.
9. In the same location you will see the compiled file of the same file in .js format.



10. Run the .js file as you normally do.

```
PS C:\Users\allam\Desktop\VS Workspace\Typescript> tsc Demo.ts
PS C:\Users\allam\Desktop\VS Workspace\Typescript> node Demo
Hello Learners
PS C:\Users\allam\Desktop\VS Workspace\Typescript> █
```

Congratulations.... You have successfully executed .ts file in VSCode