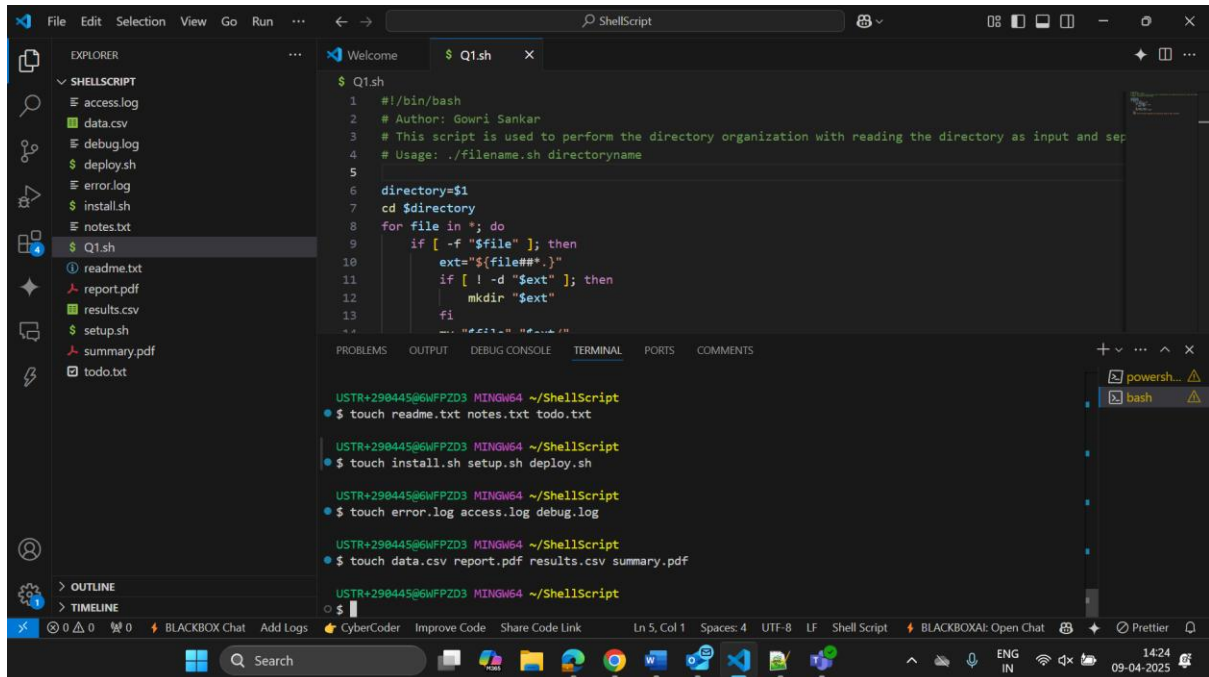


# ShellScripting

## 1. Creation of files using touch commands in the terminal



```
1  #!/bin/bash
2  # Author: Gowri Sankar
3  # This script is used to perform the directory organization with reading the directory as input and sep
4  # Usage: ./filename.sh directoryname
5
6  directory=$1
7  cd $directory
8  for file in *; do
9      if [ -f "$file" ]; then
10         ext="{file##*}"
11         if [ ! -d "$ext" ]; then
12             mkdir "$ext"
13         fi
14         mv "$file" "$ext/"
15         echo "$file moved to $ext"
16     fi
17 done
18 echo "Files have been organized into directories based on their extension"
```

```
USTR+290445@GWPZD3 MINGW64 ~/ShellScript
$ touch readme.txt notes.txt todo.txt

USTR+290445@GWPZD3 MINGW64 ~/ShellScript
$ touch install.sh setup.sh deploy.sh

USTR+290445@GWPZD3 MINGW64 ~/ShellScript
$ touch error.log access.log debug.log

USTR+290445@GWPZD3 MINGW64 ~/ShellScript
$ touch data.csv report.pdf results.csv summary.pdf

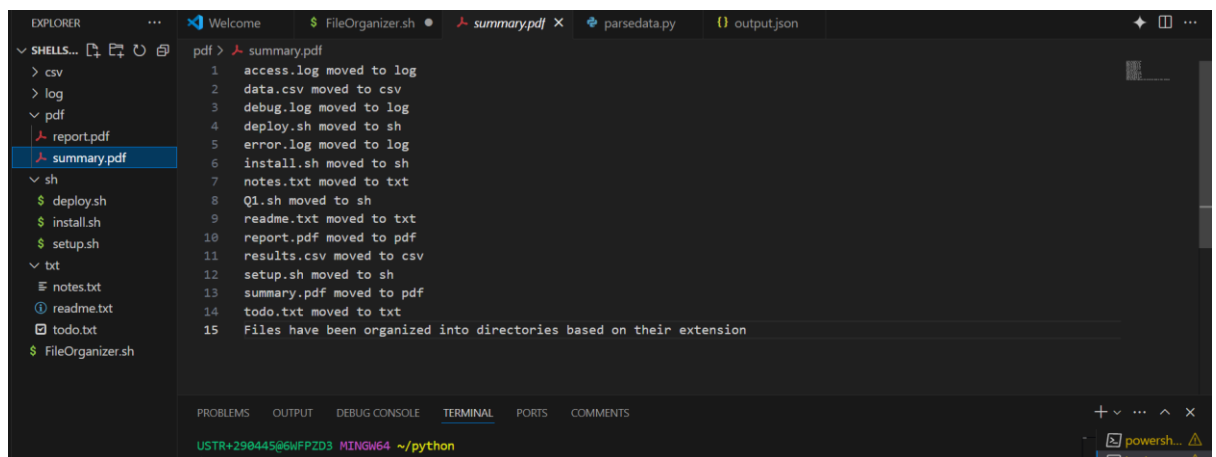
USTR+290445@GWPZD3 MINGW64 ~/ShellScript
$
```

## 2. Shell Script

```
#!/bin/bash
# Author: Gowri Sankar
# This script is used to perform the directory organization with reading the directory as
input and separating files in to respective directories
# Usage: ./filename.sh directoryname

directory=$1
cd $directory
for file in *; do
    if [ -f "$file" ]; then
        ext="{file##*}"
        if [ ! -d "$ext" ]; then
            mkdir "$ext"
        fi
        mv "$file" "$ext/"
        echo "$file moved to $ext"
    fi
done
echo "Files have been organized into directories based on their extension"
```

## After Organization Summary.pdf



The screenshot shows a Visual Studio Code interface with a file explorer on the left and a code editor in the center. The file explorer shows a directory structure with folders like 'csv', 'log', 'pdf', 'sh', and 'txt'. The 'pdf' folder is expanded, showing 'report.pdf' and 'summary.pdf'. The 'summary.pdf' file is selected. The code editor shows the output of a script named 'summary.pdf'. The output lists 15 items that have been moved to their respective directories based on their extension. The items are: 1. access.log moved to log, 2. data.csv moved to csv, 3. debug.log moved to log, 4. deploy.sh moved to sh, 5. error.log moved to log, 6. install.sh moved to sh, 7. notes.txt moved to txt, 8. Q1.sh moved to sh, 9. readme.txt moved to txt, 10. report.pdf moved to pdf, 11. results.csv moved to csv, 12. setup.sh moved to sh, 13. summary.pdf moved to pdf, 14. todo.txt moved to txt, and 15. Files have been organized into directories based on their extension. The terminal at the bottom shows the command 'python' being executed.

```
pdf > summary.pdf
1  access.log moved to log
2  data.csv moved to csv
3  debug.log moved to log
4  deploy.sh moved to sh
5  error.log moved to log
6  install.sh moved to sh
7  notes.txt moved to txt
8  Q1.sh moved to sh
9  readme.txt moved to txt
10 report.pdf moved to pdf
11 results.csv moved to csv
12 setup.sh moved to sh
13 summary.pdf moved to pdf
14 todo.txt moved to txt
15 Files have been organized into directories based on their extension
```