

## SHELL SCRIPTIN QUESTION ABDUL SAMIM MONDAL

First we need to create the working files and directories as specified in the problem.

```
master@master-vm:~/Desktop$ mkdir my_files
master@master-vm:~/Desktop$ cd my_files
master@master-vm:~/Desktop/my_files$ touch readme.txt notes.txt todo.txt
master@master-vm:~/Desktop/my_files$ touch install.sh setup.sh deploy.sh
master@master-vm:~/Desktop/my_files$ touch error.log access.log debug.log
master@master-vm:~/Desktop/my_files$ touch data.csv report.pdf results.csv summary.pdf
master@master-vm:~/Desktop/my_files$ cd ..
```

Save the script as file\_organizer.sh using a text editor like nano and make the script executable.

```
master@master-vm:~/Desktop$ nano file_organizer.sh
master@master-vm:~/Desktop$ chmod +x file_organizer.sh
```

Code for file\_organizer.sh is as follows-

```
GNU nano 4.8 file_organizer.sh
#!/bin/bash

if [ -z "$1" ]; then
    echo "Usage: $0 <directory-path>"
    exit 1
fi

TARGET_DIR="$1"

if [ ! -d "$TARGET_DIR" ]; then
    echo "Directory '$TARGET_DIR' does not exist."
    exit 1
fi

read -p "Enter file extension to organize (e.g., txt, sh, log): " EXT

DEST_DIR="$TARGET_DIR/organized/$EXT"
mkdir -p "$DEST_DIR"

COUNT=0
for FILE in "$TARGET_DIR"/*. "$EXT"; do
    if [ -e "$FILE" ]; then
        BASENAME=$(basename "$FILE")
        mv "$FILE" "$DEST_DIR/"
        echo "Moved: $FILE → $DEST_DIR/$BASENAME"
        ((COUNT++))
    fi
done

echo "Total files moved: $COUNT"
```

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### OUTPUT

Run the script with a folder, when prompted put choose sh, txt or log –

```
master@master-vm:~/Desktop$ ./file_organizer.sh my_files
Enter file extension to organize (e.g., txt, sh, log): sh
Moved: my_files/deploy.sh → my_files/organized/sh/deploy.sh
Moved: my_files/install.sh → my_files/organized/sh/install.sh
Moved: my_files/setup.sh → my_files/organized/sh/setup.sh
Total files moved: 3
master@master-vm:~/Desktop$ ./file_organizer.sh my_files
Enter file extension to organize (e.g., txt, sh, log): txt
Moved: my_files/notes.txt → my_files/organized/txt/notes.txt
Moved: my_files/readme.txt → my_files/organized/txt/readme.txt
Moved: my_files/todo.txt → my_files/organized/txt/todo.txt
Total files moved: 3
master@master-vm:~/Desktop$ ./file_organizer.sh my_files
Enter file extension to organize (e.g., txt, sh, log): log
Moved: my_files/access.log → my_files/organized/log/access.log
Moved: my_files/debug.log → my_files/organized/log/debug.log
Moved: my_files/error.log → my_files/organized/log/error.log
Total files moved: 3
```