ASSIGNMENT 6

Q. Write a shell program to sort all files stored in a given folder hierarchy, on their size.

Shell Prohram:

```
#!/bin/bash

if [ $# -ne 1 ]; then
    echo "Usage: $0 < directory>"
    exit 1

fi

DIR="$1"

if [ ! -d "$DIR" ]; then
    echo "Error: Directory not found!"
    exit 1

fi

echo "Sorting files by size in: $DIR"

find "$DIR" -type f -exec du -h {} + | sort -rh
```

```
.vscode
                                                   14-12-2024 11:58
                                                                               File folder
contact
                                                   14-12-2024 11:58
                                                                               File folder
= events
                                                  06-03-2025 14:05
                                                                               File folder
🗀 gallery2
                                                   14-12-2024 11:58
                                                                               File folder
main
                                                   14-12-2024 11:58
                                                                               File folder
= sports
                                                   14-12-2024 11:58
                                                                               File folder
= team
                                                   14-12-2024 11:58
                                                                               File folder
```

```
Schmad vs. 286.5h

AsusWirugankchak MINGM64 -

3. /ass5.sh /C/Users/Asus/Gatheringwebs/te

5. /ass5.sh /C/Users/Asus/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwebs/Gatheringwe
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// Jusers/Assus/datheringebeste/vents/fonts/flaticon.css
// Jusers/Assus/datheringebeste/vents/fonts/flaticon.css
// Jusers/Assus/datheringebeste/vents/fonts/flaticon.csf
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// Jusers/Assus/datheringebeste/vents/fonts/flaticon.csf
// Jusers/Assus/datheringebeste/vents/fonts/flaticon.csf
// Jusers/Assus/datheringebeste/vents/css/not-select.css
// Jusers/Assus/datheringebeste/vents/css/not-select.css
// Jusers/Assus/datheringebeste/vents/css/not-select.css
// Jusers/Assus/datheringebeste/vents/css/not-select.css
// Jusers/Assus/datheringebeste/.git/hooks/pudate.sample
// Jusers/Assus/datheringebeste/.git/hooks/pudate.sample
// Jusers/Assus/datheringebeste/.git/hooks/push-to-checkout.sample
// Jusers/Assus/datheringebeste/.git/hooks/push-to-checkout.sample
// Jusers/Assus/datheringebeste/.git/hooks/prepare-commit-msg.sample
// Jusers/Assus/datheringebeste/.git/hooks/pre-push.sample
// Jusers/Assus/datheringebeste/.git/hooks/pre-push.sa
4.0K
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              .OK
```

Conclusion:

This demonstrates how to efficiently list and sort all files in a given directory (including subdirectories) based on their size. By using shell scripting, we automate the process of retrieving file sizes and sorting them in descending order.