

# Homework Week 1 Day 1

```
MINOWS64/C:/Users/99r/Documents/DSI2023/WK1D1
sttin@sensory_drp MINGW64 ~
$ ls
AppData/
Application Data/
Contacts/
Cookies/
Documents/
Downloads/
Favorites/
Figure_1_PilotTest_LeftSide.png
Links/
Local Settings/
Music/
My Documents/
NTUSER.DAT
NTUSER.DAT{bf32af4a-2b0d-11ee-af11-743af45471e8}.TM.btf
NTUSER.DAT{bf32af4a-2b0d-11ee-af11-743af45471e8}.TM.Container00000000000000000000
1.regtrans-ms
NTUSER.DAT{bf32af4a-2b0d-11ee-af11-743af45471e8}.TM.Container00000000000000000000
2.regtrans-ms
Nethood/
OneDrive/
PrintHood/
Recent/
'Saved Games'/
Searches/
Sendto/
'Start Menu'/
Templates/
Videos/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

sttin@sensory_drp MINGW64 ~
$ cd Documents

sttin@sensory_drp MINGW64 ~/Documents
$ cd mkdir DSI2023
bash: cd: too many arguments

sttin@sensory_drp MINGW64 ~/Documents
$ mkdir DSI2023

sttin@sensory_drp MINGW64 ~/Documents
$ mkdir WK1D1

sttin@sensory_drp MINGW64 ~/Documents
$ cd DSI2023

sttin@sensory_drp MINGW64 ~/Documents/DSI2023
$ cd WK1D1
bash: cd: WK1D1: No such file or directory

sttin@sensory_drp MINGW64 ~/Documents/DSI2023
$ mkdir WK1D1

sttin@sensory_drp MINGW64 ~/Documents/DSI2023
$ cd WK1D1

sttin@sensory_drp MINGW64 ~/Documents/DSI2023/WK1D1
$ touch file1.txt

sttin@sensory_drp MINGW64 ~/Documents/DSI2023/WK1D1
$ touch file2.txt

sttin@sensory_drp MINGW64 ~/Documents/DSI2023/WK1D1
$ ls
file1.txt  file2.txt

sttin@sensory_drp MINGW64 ~/Documents/DSI2023/WK1D1
$ |
```

# Homework Week 1 Day 2

```
MINOW64/c/Users/nhr/Documents/DSI2023/WK1D2
NUSER.DAT(bf32af4a-2b09-11ee-af11-743af45471e8).TMContainer000000000000000000
2. nageroni-ms
Nethood@
OneDrive/
PrintHood@
Recent@
'Saved Games'/
Searches/
Sendto@
'Start Menu'@
Templates@
Videos/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

sttin@sensory_drp MINOW64 ~
$ cd Documents

sttin@sensory_drp MINOW64 ~/Documents
$ ls
DSI2023/ 'LabChart Lightning'/ 'My Music'@ 'My Pictures'@ 'My Videos'@

sttin@sensory_drp MINOW64 ~/Documents
$ cd DSI2023

sttin@sensory_drp MINOW64 ~/Documents/DSI2023
$ ls
WK1D1/ WK1D2/

sttin@sensory_drp MINOW64 ~/Documents/DSI2023
$ cd WK1D2

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2
$ ls
parking-tickets-2022/

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2
$ cd parking-tickets-2022

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2/parking-tickets-2022
$ ls
Parking_Tags_Data_2022.000.csv Parking_Tags_Data_2022.004.csv
Parking_Tags_Data_2022.001.csv Parking_Tags_Data_2022.005.csv
Parking_Tags_Data_2022.002.csv Parking_Tags_Data_2022.006.csv
Parking_Tags_Data_2022.003.csv Parking_Tags_Data_2022.007.csv

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2/parking-tickets-2022
$ mv Parking_Tags_Data_2022.000.csv ~/Documents/DSI2023/WK1D2/parking_data.csv

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2/parking-tickets-2022
$ cd ..

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2
$ ls
parking-tickets-2022/ parking_data.csv

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2
$ cut -d, -f4 parking_data.csv | sort | uniq | grep FIRE
PARK IN A FIRE ROUTE
PARK-10.5M FIRE HALL OPP SIDE
PARK-7.5M FIRE HALL SAME SIDE
PARK-WITHIN 3M OF FIRE HYDRANT

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2
$ cut -d, -f4 parking_data.csv | sort | uniq | grep FIRE > ~/Documents/DSI2023/WK1D2/unique_fire_values.txt

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2
$ ls
parking-tickets-2022/ parking_data.csv unique_fire_values.txt

sttin@sensory_drp MINOW64 ~/Documents/DSI2023/WK1D2
$
```

# Homework Week 1 Day 3

```
MINGW64/c:/Users/09r/documents/DSI2023/WK1D3
sttin@Sensory_DrP MINGW64 ~
$ pwd
/c:/Users/sttin

sttin@Sensory_DrP MINGW64 ~
$ ls
AppData/
Application Data/
Contacts/
Cookies/
Documents/
Downloads/
Favorites/
Figure_1_PilotTest_LeftSide.png
Links/
Local Settings/
Music/
My Documents/
NTUSER.DAT
NTUSER.DAT{bf32af4a-2b0d-11ee-af11-743af45471e8}.TM.b1f
NTUSER.DAT{bf32af4a-2b0d-11ee-af11-743af45471e8}.TMContainer00000000000000000000
1.regtrans-ms
NTUSER.DAT{bf32af4a-2b0d-11ee-af11-743af45471e8}.TMContainer00000000000000000000
2.regtrans-ms
Network/
OneDrive/
PrintHood/
Recent/
Saved Games/
Searches/
SendTo/
Start Menu/
Templates/
Videos/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

sttin@Sensory_DrP MINGW64 ~
$ cd documents

sttin@Sensory_DrP MINGW64 ~/documents
$ ls
DSI2023/ 'LabChart Lightning/' 'My Music/' 'My Pictures/' 'My Videos/'

sttin@Sensory_DrP MINGW64 ~/documents
$ cd DSI2023

sttin@Sensory_DrP MINGW64 ~/documents/DSI2023
$ ls
WK1D1/ WK1D2/ WK1D3/

sttin@Sensory_DrP MINGW64 ~/documents/DSI2023
$ cd WK1D3

sttin@Sensory_DrP MINGW64 ~/documents/DSI2023/WK1D3
$ ls
calculate_fines_by_province.sh* count_rows.sh* parking_data.csv
count_infractors_by_code.sh* list_infractors.sh*

sttin@Sensory_DrP MINGW64 ~/documents/DSI2023/WK1D3
$ bash count_rows.sh
The file has 250000 rows.

sttin@Sensory_DrP MINGW64 ~/documents/DSI2023/WK1D3
$
```

**Bash script file:**

```
#!/bin/bash

# Function to count the number of rows in the parking_data.CSV
count_rows() {
    local file=$1

    # Check if the file exists
    if [[ ! -f "$file" ]]; then
        echo "File not found: $file"
        return 1
    fi

    # Count the number of lines in the file
    local lines=$(wc -l < "$file")
    echo "The file has $lines rows."
}

# Main script execution
filename="parking_data.csv"
count_rows "$filename"
```