

grep Assignment

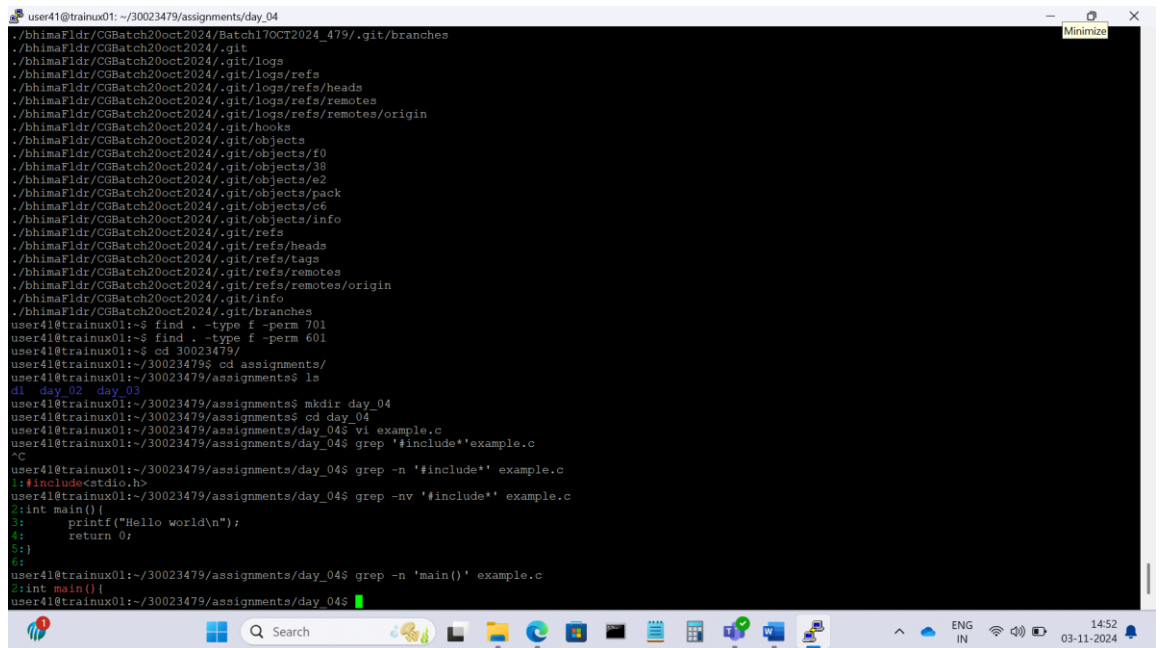
1. Use any .c file. Using grep command extract and display
 - a. all lines beginning with #include with line numbers

```
user41@trainux01: ~/30023479/assignments/day_04
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/objects/info
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/objects/08
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/refs
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/refs/heads
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/refs/tags
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/refs/remotes
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/info
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/branches
./bhimaFldr/CGBatch20oct2024/.git
./bhimaFldr/CGBatch20oct2024/.git/logs
./bhimaFldr/CGBatch20oct2024/.git/logs/refs
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/heads
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/remotes
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/.git/hooks
./bhimaFldr/CGBatch20oct2024/.git/objects
./bhimaFldr/CGBatch20oct2024/.git/objects/f0
./bhimaFldr/CGBatch20oct2024/.git/objects/38
./bhimaFldr/CGBatch20oct2024/.git/objects/e2
./bhimaFldr/CGBatch20oct2024/.git/objects/pack
./bhimaFldr/CGBatch20oct2024/.git/objects/c6
./bhimaFldr/CGBatch20oct2024/.git/objects/info
./bhimaFldr/CGBatch20oct2024/.git/refs
./bhimaFldr/CGBatch20oct2024/.git/refs/heads
./bhimaFldr/CGBatch20oct2024/.git/refs/tags
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/.git/info
./bhimaFldr/CGBatch20oct2024/.git/branches
user41@trainux01:~$ find . -type f -perm 701
user41@trainux01:~$ find . -type f -perm 601
user41@trainux01:~$ cd 30023479/
user41@trainux01:~/30023479$ cd assignments/
user41@trainux01:~/30023479/assignments$ ls
dl day_02 day_03
user41@trainux01:~/30023479/assignments$ mkdir day_04
user41@trainux01:~/30023479/assignments$ cd day_04
user41@trainux01:~/30023479/assignments/day_04$ vi example.c
user41@trainux01:~/30023479/assignments/day_04$ grep '#include' example.c
^C
user41@trainux01:~/30023479/assignments/day_04$ grep -n '#include' example.c
1:#include<stdio.h>
user41@trainux01:~/30023479/assignments/day_04$
```

- b. display all lines which do not begin with #include

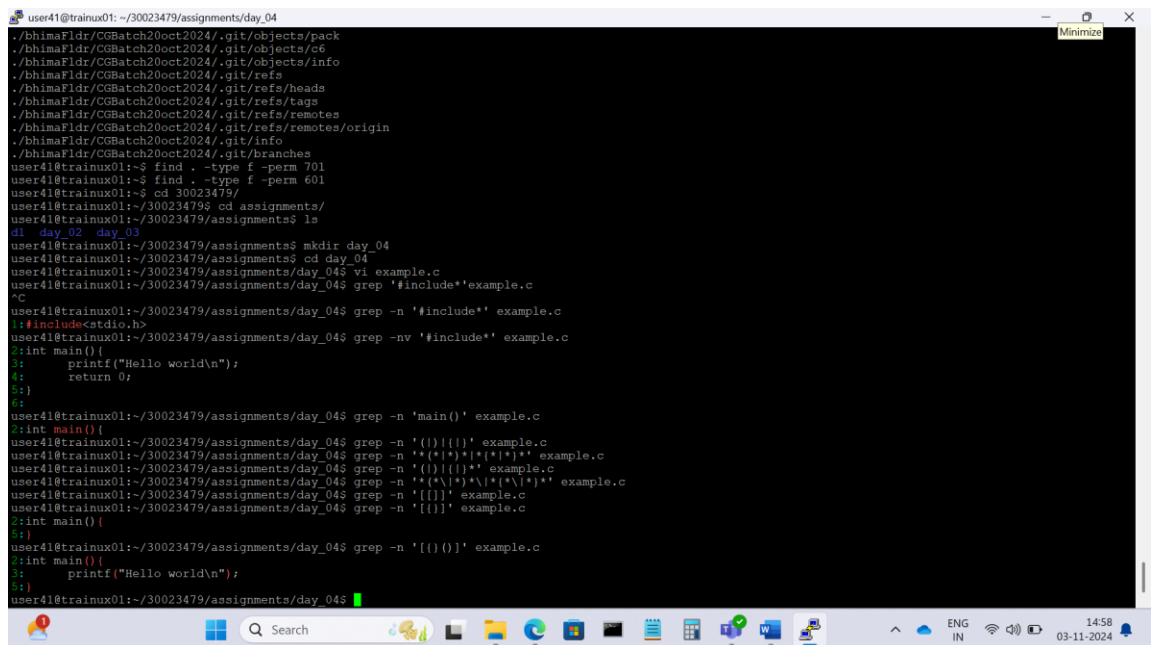
```
user41@trainux01: ~/30023479/assignments/day_04
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/info
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/branches
./bhimaFldr/CGBatch20oct2024/.git
./bhimaFldr/CGBatch20oct2024/.git/logs
./bhimaFldr/CGBatch20oct2024/.git/logs/refs
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/heads
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/remotes
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/.git/objects
./bhimaFldr/CGBatch20oct2024/.git/objects/f0
./bhimaFldr/CGBatch20oct2024/.git/objects/38
./bhimaFldr/CGBatch20oct2024/.git/objects/e2
./bhimaFldr/CGBatch20oct2024/.git/objects/pack
./bhimaFldr/CGBatch20oct2024/.git/objects/c6
./bhimaFldr/CGBatch20oct2024/.git/objects/info
./bhimaFldr/CGBatch20oct2024/.git/refs
./bhimaFldr/CGBatch20oct2024/.git/refs/heads
./bhimaFldr/CGBatch20oct2024/.git/refs/tags
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/.git/info
./bhimaFldr/CGBatch20oct2024/.git/branches
user41@trainux01:~$ find . -type f -perm 701
user41@trainux01:~$ find . -type f -perm 601
user41@trainux01:~$ cd 30023479/
user41@trainux01:~/30023479$ cd assignments/
user41@trainux01:~/30023479/assignments$ ls
dl day_02 day_03
user41@trainux01:~/30023479/assignments$ mkdir day_04
user41@trainux01:~/30023479/assignments$ cd day_04
user41@trainux01:~/30023479/assignments/day_04$ vi example.c
user41@trainux01:~/30023479/assignments/day_04$ grep '#include' example.c
^C
user41@trainux01:~/30023479/assignments/day_04$ grep -n '#include' example.c
1:#include<stdio.h>
user41@trainux01:~/30023479/assignments/day_04$ grep -nv '#include' example.c
2:int main()
3: {
4:     printf("Hello world\n");
5:     return 0;
6: }
user41@trainux01:~/30023479/assignments/day_04$
```

c. display the line number of main()



```
user41@trainux01: ~/30023479/assignments/day_04
./bhimaFldr/CGBatch20oct2024/Batch17OCT2024_479/.git/branches
./bhimaFldr/CGBatch20oct2024/.git
./bhimaFldr/CGBatch20oct2024/.git/logs
./bhimaFldr/CGBatch20oct2024/.git/logs/refs
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/heads
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/remotes
./bhimaFldr/CGBatch20oct2024/.git/logs/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/.git/hooks
./bhimaFldr/CGBatch20oct2024/.git/objects
./bhimaFldr/CGBatch20oct2024/.git/objects/f0
./bhimaFldr/CGBatch20oct2024/.git/objects/38
./bhimaFldr/CGBatch20oct2024/.git/objects/e2
./bhimaFldr/CGBatch20oct2024/.git/objects/pack
./bhimaFldr/CGBatch20oct2024/.git/objects/c6
./bhimaFldr/CGBatch20oct2024/.git/objects/info
./bhimaFldr/CGBatch20oct2024/.git/refs
./bhimaFldr/CGBatch20oct2024/.git/refs/heads
./bhimaFldr/CGBatch20oct2024/.git/refs/tags
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/.git/info
./bhimaFldr/CGBatch20oct2024/.git/branches
user41@trainux01:~$ find . -type f -perm 701
user41@trainux01:~$ find . -type f -perm 601
user41@trainux01:~$ cd 30023479/
user41@trainux01:~/30023479$ cd assignments/
user41@trainux01:~/30023479/assignments$ ls
dl day_02 day_03
user41@trainux01:~/30023479/assignments$ mkdir day_04
user41@trainux01:~/30023479/assignments$ cd day_04
user41@trainux01:~/30023479/assignments/day_04$ vi example.c
user41@trainux01:~/30023479/assignments/day_04$ grep '#include' example.c
1:#include<stdio.h>
user41@trainux01:~/30023479/assignments/day_04$ grep -n '#include' example.c
1:#include<stdio.h>
user41@trainux01:~/30023479/assignments/day_04$ grep -nv '#include' example.c
2:int main()
3:{
4:    printf("Hello world\n");
5:    return 0;
6;}
user41@trainux01:~/30023479/assignments/day_04$ grep -n 'main()' example.c
2:int main()
user41@trainux01:~/30023479/assignments/day_04$
```

d. extract all lines containing characters of opening and closing parathesis
{(,)}



```
user41@trainux01: ~/30023479/assignments/day_04
./bhimaFldr/CGBatch20oct2024/.git/objects/pack
./bhimaFldr/CGBatch20oct2024/.git/objects/c6
./bhimaFldr/CGBatch20oct2024/.git/objects/info
./bhimaFldr/CGBatch20oct2024/.git/refs
./bhimaFldr/CGBatch20oct2024/.git/refs/heads
./bhimaFldr/CGBatch20oct2024/.git/refs/tags
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes
./bhimaFldr/CGBatch20oct2024/.git/refs/remotes/origin
./bhimaFldr/CGBatch20oct2024/.git/info
./bhimaFldr/CGBatch20oct2024/.git/branches
user41@trainux01:~$ find . -type f -perm 701
user41@trainux01:~$ find . -type f -perm 601
user41@trainux01:~$ cd 30023479/
user41@trainux01:~/30023479$ cd assignments/
user41@trainux01:~/30023479/assignments$ ls
dl day_02 day_03
user41@trainux01:~/30023479/assignments$ mkdir day_04
user41@trainux01:~/30023479/assignments$ cd day_04
user41@trainux01:~/30023479/assignments/day_04$ vi example.c
user41@trainux01:~/30023479/assignments/day_04$ grep '#include' example.c
1:#include<stdio.h>
user41@trainux01:~/30023479/assignments/day_04$ grep -n '#include' example.c
1:#include<stdio.h>
user41@trainux01:~/30023479/assignments/day_04$ grep -nv '#include' example.c
2:int main()
3:{
4:    printf("Hello world\n");
5:    return 0;
6;}
user41@trainux01:~/30023479/assignments/day_04$ grep -n 'main()' example.c
2:int main()
user41@trainux01:~/30023479/assignments/day_04$ grep -n '({|})' example.c
2:int main()
3:{
4:    printf("Hello world\n");
5:    return 0;
6;}
user41@trainux01:~/30023479/assignments/day_04$ grep -n '({|})' example.c
2:int main()
3:{
4:    printf("Hello world\n");
5:    return 0;
6;}
user41@trainux01:~/30023479/assignments/day_04$
```