

grep Assignment

1. Use any .c file. Using grep command extract and display
 - a. all lines beginning with #include with line numbers
 - b. display all lines which do not begin with #include
 - c. display the line number of main()
 - d. extract all lines containing characters of opening and closing parenthesis {(),}

Ans: `grep -n '^#include' tri.c`

`grep -v '^#include' tri.c`

`grep -n 'main()' tri.c`

`grep '[{}()]' tri.c`

```
user64@trainux01:~$ cd Assignment
user64@trainux01:~/Assignment$ vi tri.c
user64@trainux01:~/Assignment$ grep -n '^#include' file.c
grep: file.c: No such file or directory
user64@trainux01:~/Assignment$ grep -n '^#include' tri.c
1:#include<stdio.h>
user64@trainux01:~/Assignment$ grep -v '^#include' tri.c

int main()

{

float num1;

float num2;

float mul;

scanf("%f", &num1);

scanf("%f", &num2);

mul=num1*num2;

printf("\n%.3f",mul);

}
user64@trainux01:~/Assignment$ grep -n 'main()' tri.c
3:int main()
user64@trainux01:~/Assignment$ grep -n '[{}()]' tri.c
5:{
21:}
user64@trainux01:~/Assignment$ vi tri.c
user64@trainux01:~/Assignment$ grep -n '[{}(),()]' tri.c
3:int main()
5:{
13:scanf("%f", &num1);
15:scanf("%f", &num2);
19:printf("\n%.3f",mul);
21:}
user64@trainux01:~/Assignment$
```

2. Perform the above operations on a set of *.c files

Ans: `grep -n "^#include" *.c`

`grep -v "^#include" *.c`

`grep -n "main()" *.c`

`grep "[{}()]" *.c`

```
user64@trainux01:~/Batch17Oct2024_189$ grep -n '^#include' *.c
abc.c:1:#include<stdio.h>
elseif.c:1:#include<stdio.h>
fgh.c:1:#include<stdio.h>
intun.c:1:#include<stdio.h>
intun.c:2:#include<string.h>
keer.c:1:#include<stdio.h>
str.c:1:#include<stdio.h>
strint.c:1:#include<stdio.h>
tri.c:1:#include<stdio.h>
while.c:8:#include<stdio.h>
while.c:9:#include<stdlib.h>
user64@trainux01:~/Batch17Oct2024_189$ grep -rn '^#include' *.c
abc.c:1:#include<stdio.h>
elseif.c:1:#include<stdio.h>
fgh.c:1:#include<stdio.h>
intun.c:1:#include<stdio.h>
intun.c:2:#include<string.h>
keer.c:1:#include<stdio.h>
str.c:1:#include<stdio.h>
strint.c:1:#include<stdio.h>
tri.c:1:#include<stdio.h>
while.c:8:#include<stdio.h>
while.c:9:#include<stdlib.h>
user64@trainux01:~/Batch17Oct2024_189$ grep -v '^#include' *.c
abc.c:int main()
abc.c:{
abc.c:    int i,j;
abc.c:    char buff[1024];
abc.c:    scanf("%d %d",&i,&j);
abc.c:    printf("\ni=%d\tj=%d",i,j);
abc.c:    sprintf(buff,"\ni=%d\tj=%d",i,j);
abc.c:    printf("\bBuffer value:%s",buff);
abc.c:    printf("\n\n");
abc.c:    return 0;
abc.c;}
elseif.c:int main()
elseif.c:{
elseif.c:    char clrcode;
elseif.c:    clrcode=getchar
fgh.c:
```

