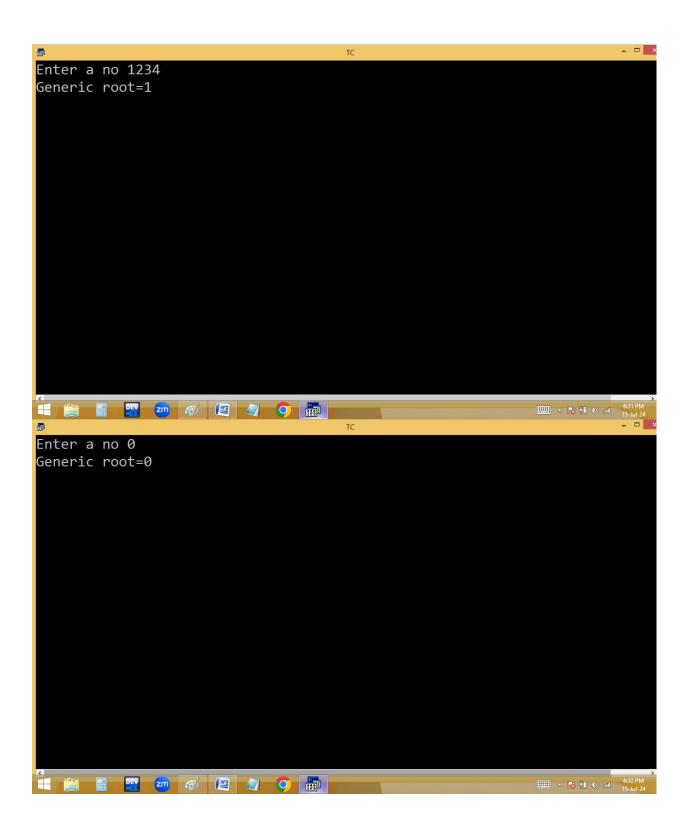
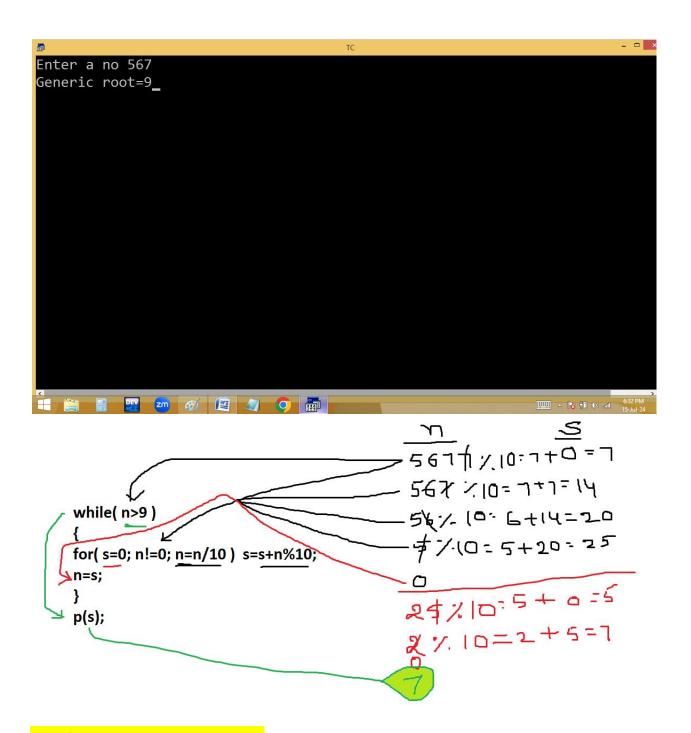
Finding generic root of given no.

```
File Edit Run Compile Project Options Debug Break/watch
               Col 16 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 8
#include<stdio.h>
#include<conio.h>
void main()
long n;int s;
clrscr();
printf("Enter a no "); scanf("%ld",&n);
while(n>9 | n<-9)
for(s=0; n!=0; n=n/10 ) s=s+n%10;
n=s;
printf("Generic root=%ld",n);
getch();
                                                      _____ ^ [3] (√) and 6.31 Pi
15-Jul-
Enter a no -1234
Generic root=-1_
_____ ^ ▼ 11 (I) and 15-Jul-24
```





Finding magic no or not

If generic root is 1 it is a magic no.

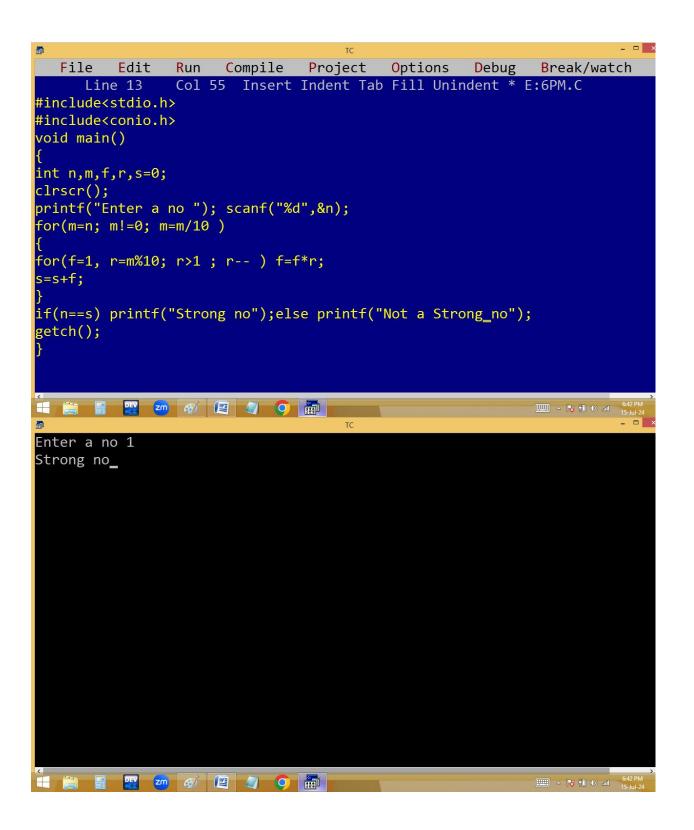
1234 → 1+2+3+4 = 10 → 1+0 =

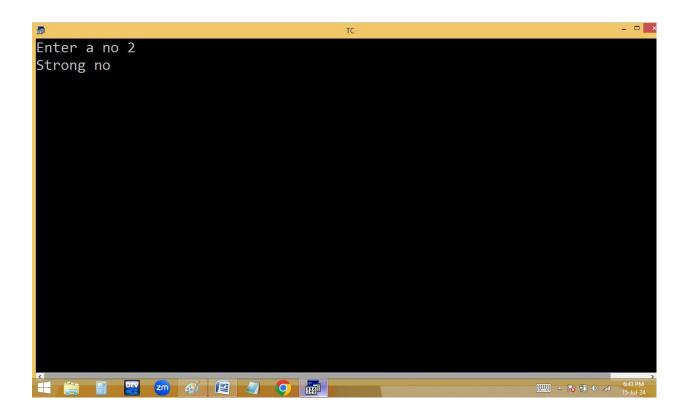
```
File Edit Run Compile Project Options Debug Break/watch
              Col 59 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 13
#include<stdio.h>
#include<conio.h>
void main()
long n;int s;
clrscr();
printf("Enter a no "); scanf("%ld",&n);
while(n>9 | n<-9)
for(s=0; n!=0; n=n/10 ) s=s+n%10;
n=s;
if(n==1) printf("Magic no");else printf("Not a Magic no");
getch();
                                                   _____ ^ ₹ 11 () and 6:3
Enter a no 234
Not a Magic no_
△ 🔯 🗓 🌓 aid 6:33 PM
```

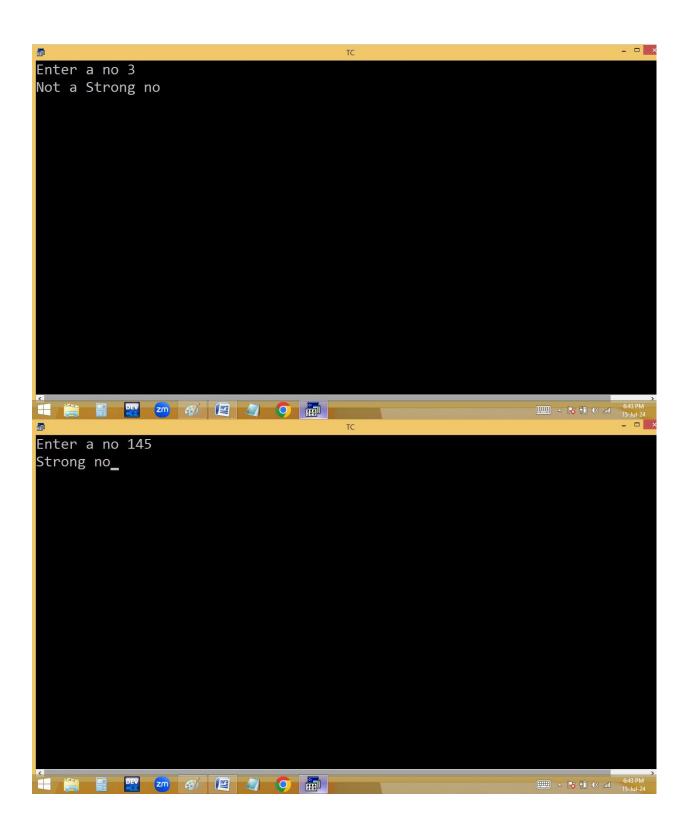
Finding strong no or not?

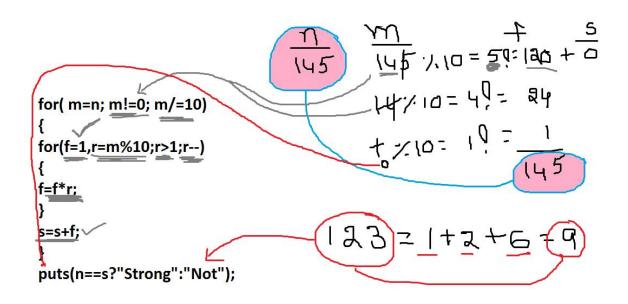
Sum of factorial of each digit is equal to given no.

- 1 factorial 1
- 2 factorial 2
- 3 factorial 6 ← not a strong no





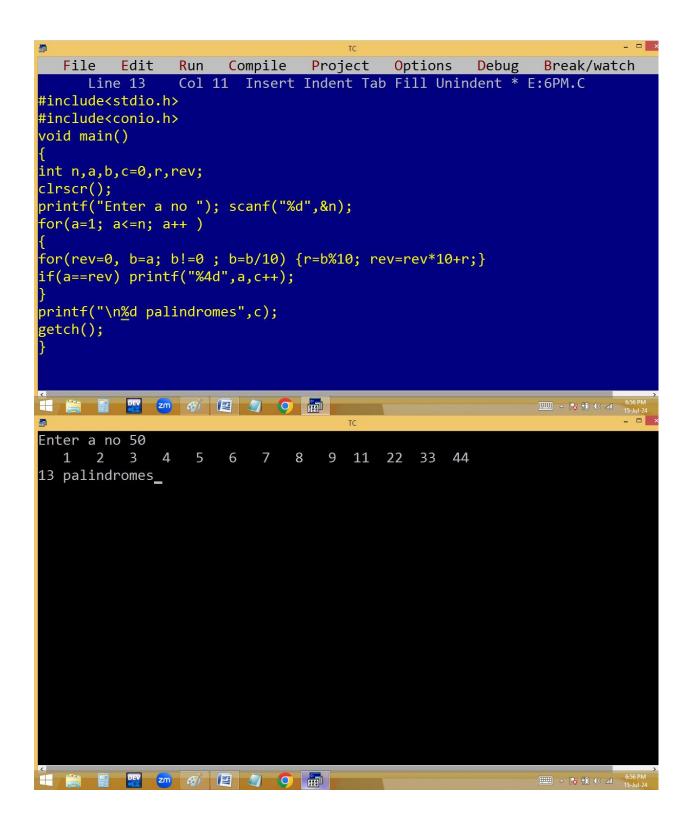




Printing 1...n palindrome no's and count.

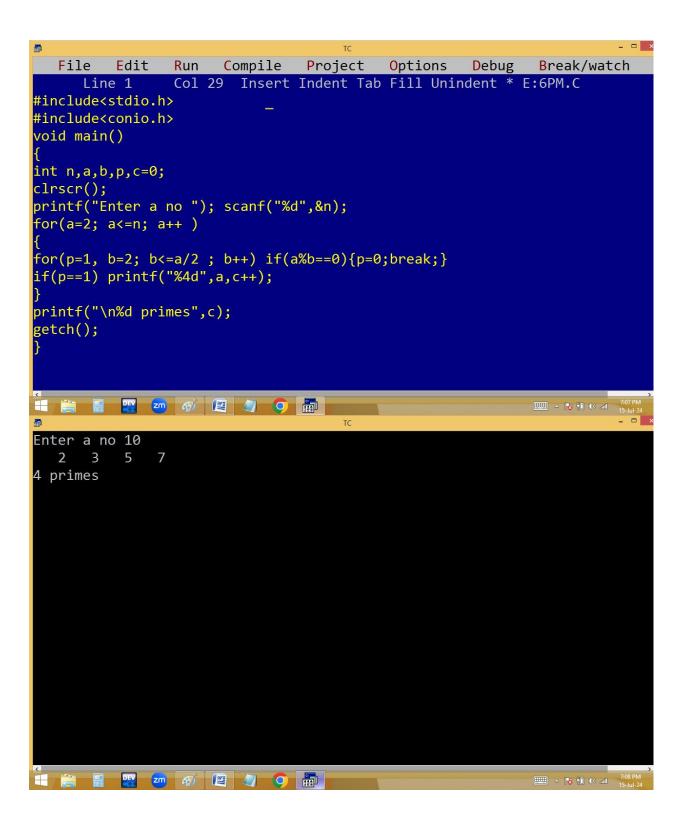
Eg: 1 to 50 palindromes and count

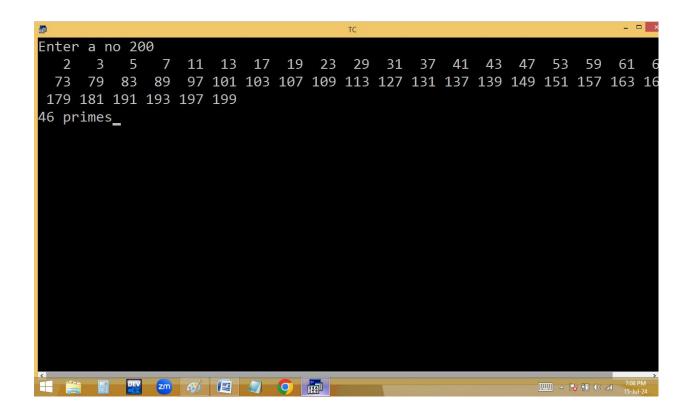
1 to 9 11 22 33 44 – 13 palindromes



```
Enter a no 500
      2
          3
                 5
                            8
                                9
                                  11
                                      22
                                          33
                                                 55
121 131 141 151 161 171 181 191 202 212 222 232 242 252 262 272 282 292 30
323 333 343 353 363 373 383 393 404 414 424 434 444 454 464 474 484 494
58 palindromes
         6:56 PM
                                                   0×10+1=1
                      50
  for( a=1; a<=n; a++ )
                                      2%10= a
                                                  ロドロナゴミュ
  for( b=a,rev=0;b!=0;b=b/10)
                                     10=0
                                                  0×10+0:0
                           XIO
                                                               10
                                                  0 × 10 + 1= 1
                                      11/10=1
  r=b%10; rev=rev*10+r;
                                                  DX10+1=1
                                      1201.41
  if(a==rev)p(a, c++);
                                                   1×10+1=11
                                      1=01%1
  p(c);
```

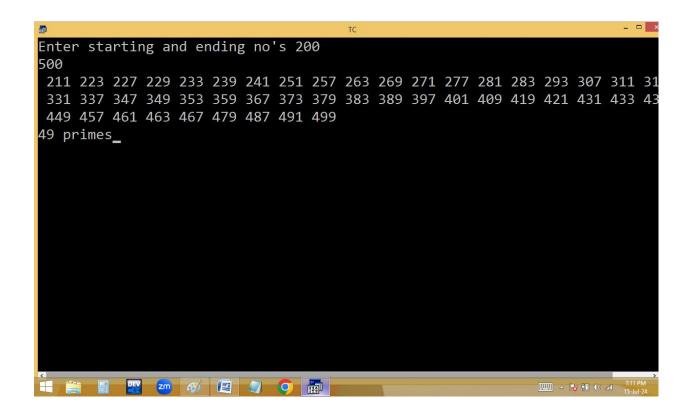
Print 1..n primes and count:





Print n to n primes and count:

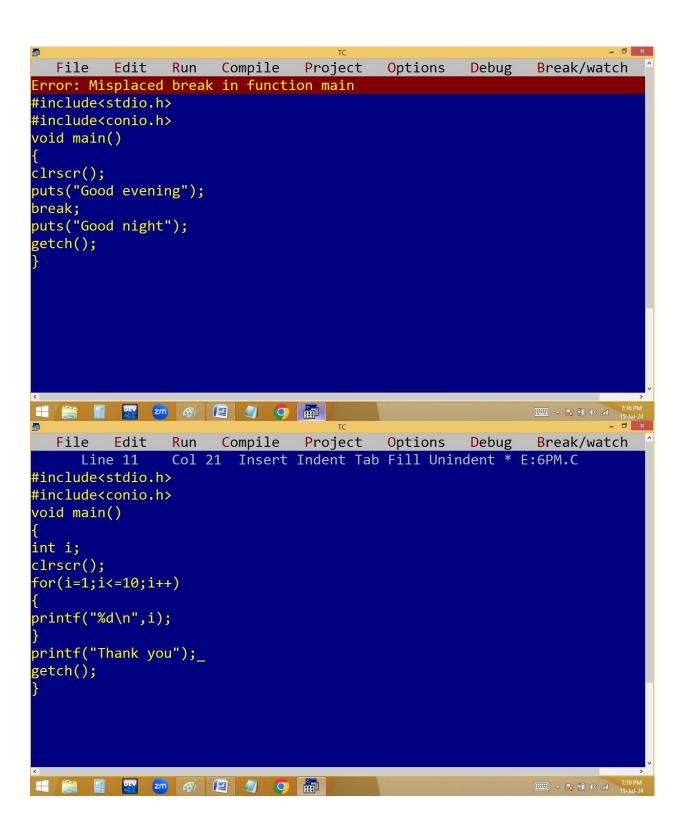
```
_ 🗆 ×
 File Edit Run Compile Project Options Debug Break/watch
            Col 28 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
int n,a,b,p,c=0;
clrscr();
printf("Enter starting and ending no's "); scanf("%d%d",&a,&n);
if(a>n){int t=a; a=n; n=t;}
for( ; a<=n; a++ )
for(p=1, b=2; b<=a/2 ; b++) if(a%b==0){p=0;break;}
if(p==1) printf("%4d",a,c++);
printf("\n%d primes",c);
getch();
Enter starting and ending no's 100 75
 79 83 89 97
4 primes_
  △ 🔯 🗓 (b) and 7:11 PM
```

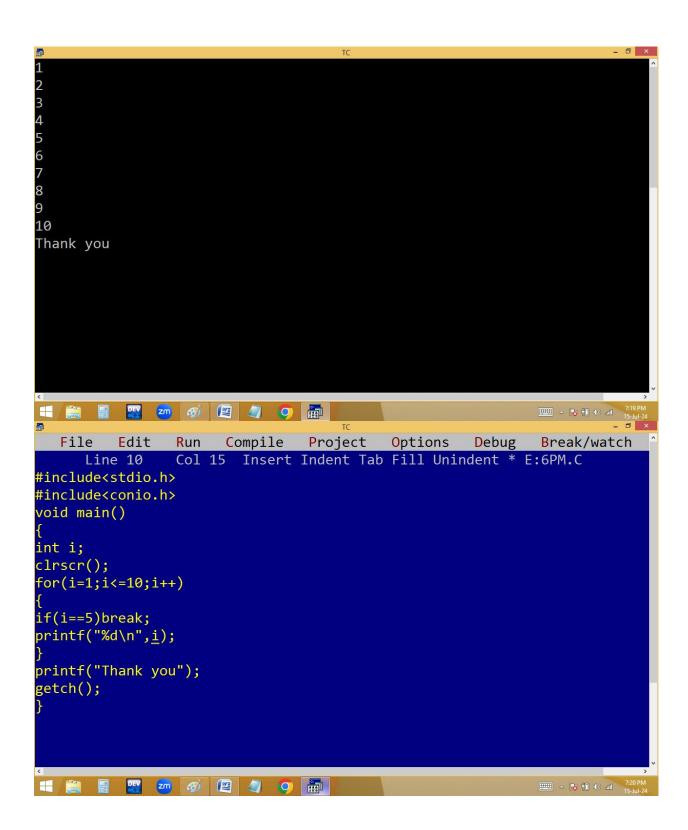


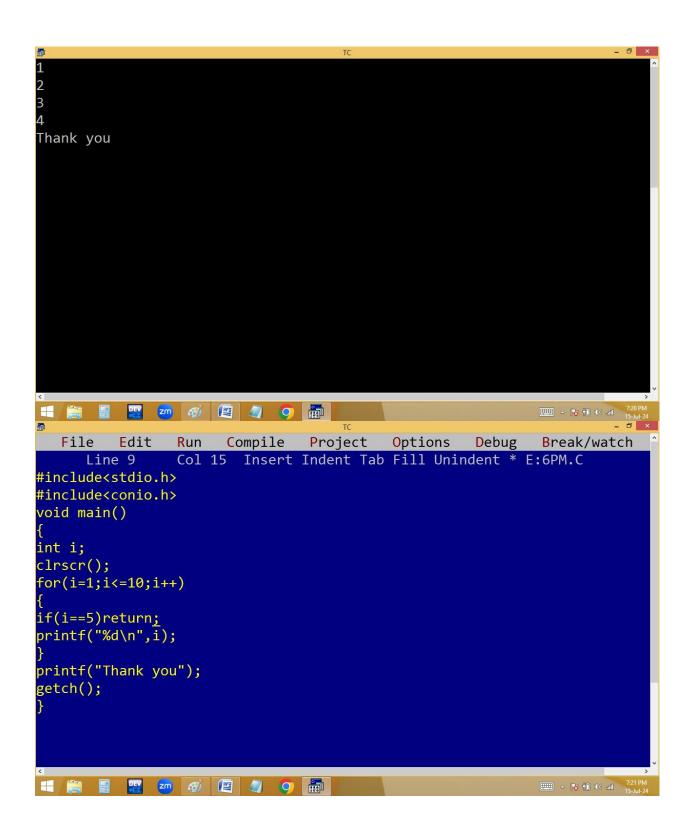
```
_ 🗆 ×
 File Edit Run Compile Project Options Debug Break/watch
              Col 19 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h> #include<conio.h>
void main()
int n,a,b,p,c=0;
clrscr();
printf("Enter starting and ending no's ");                                  scanf("%d%d",&a,&n);
if(a>n){int t=a; a=n; n=t;}
if(a==1) a=2;
while(a<=n)
p=1; b=2; while(b<=a/2){    if(a%b==0){p=0;break;} b++;    }
if(p==1) printf("%4d",a,c++);
a++;
printf("\n%d primes",c);
getch();
- R 11 () at 1
Enter starting and ending no's 50 75
 53 59 61 67 71 73
6 primes_
Page: 15 of 16 Words: 116 🕉
                                                       120%
          _____ ^715 PM
```

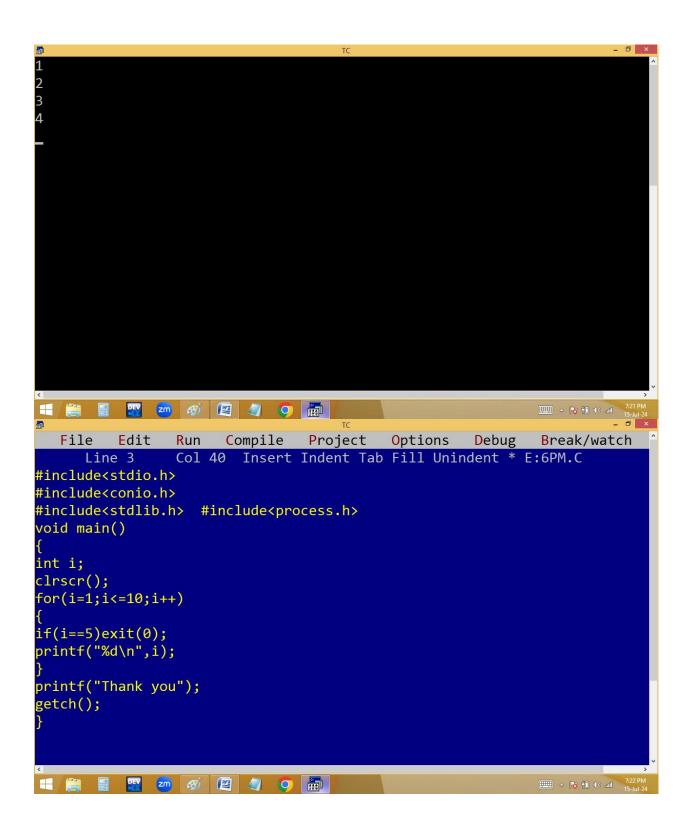
break: It is a keyword used within switch / loop.

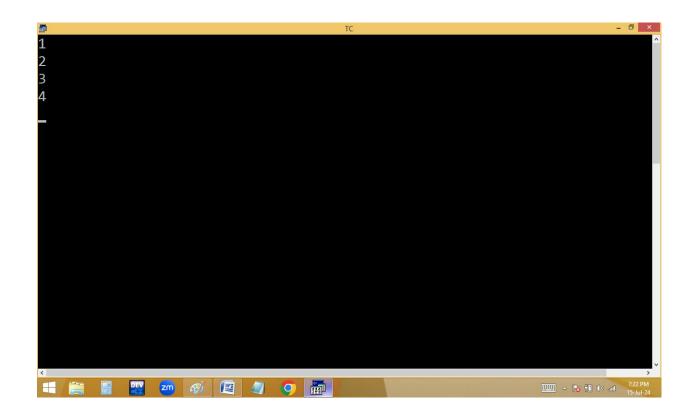
When break is occurred program execution jumped to the first statement after the switch / loop.

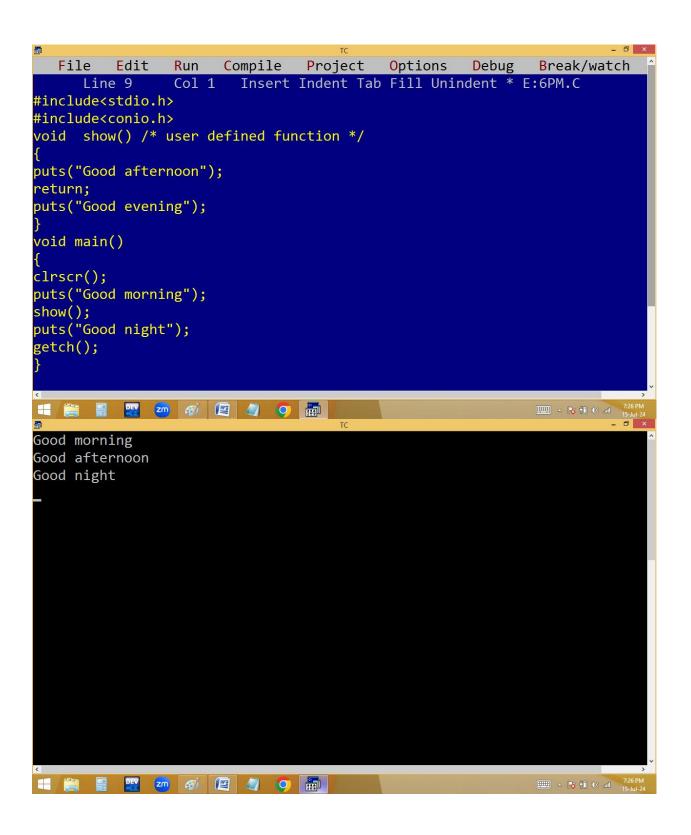










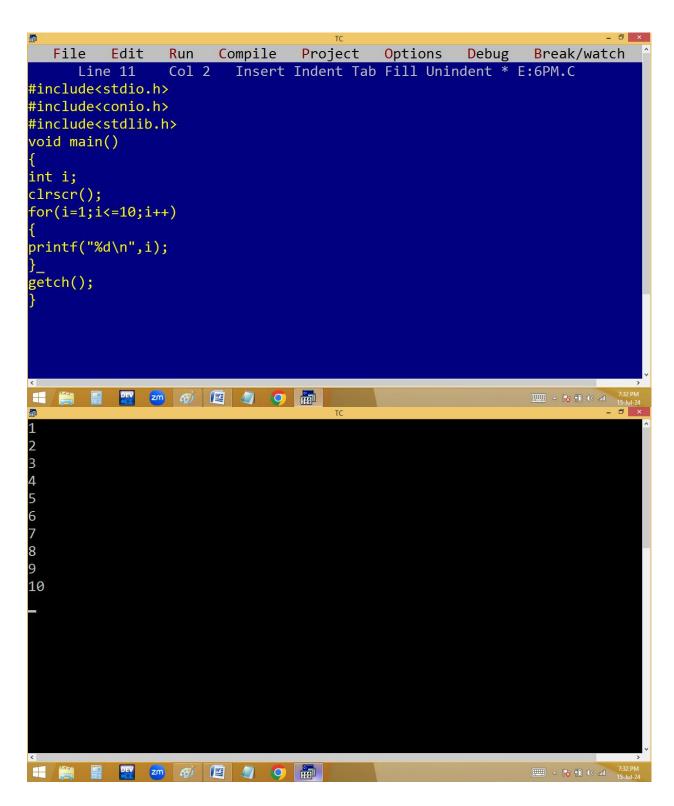


```
_ 🗇 🗙
                  Compile Project Options Debug Break/watch
  File Edit
             Run
             Col 19 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 3
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void show() /* user defined function */
puts("Good afternoon");
exit(0);
puts("Good evening");
void main()
clrscr();
puts("Good morning");
show();
puts("Good night");
getch();
Good morning
Good afternoon
- T:27 PM
```

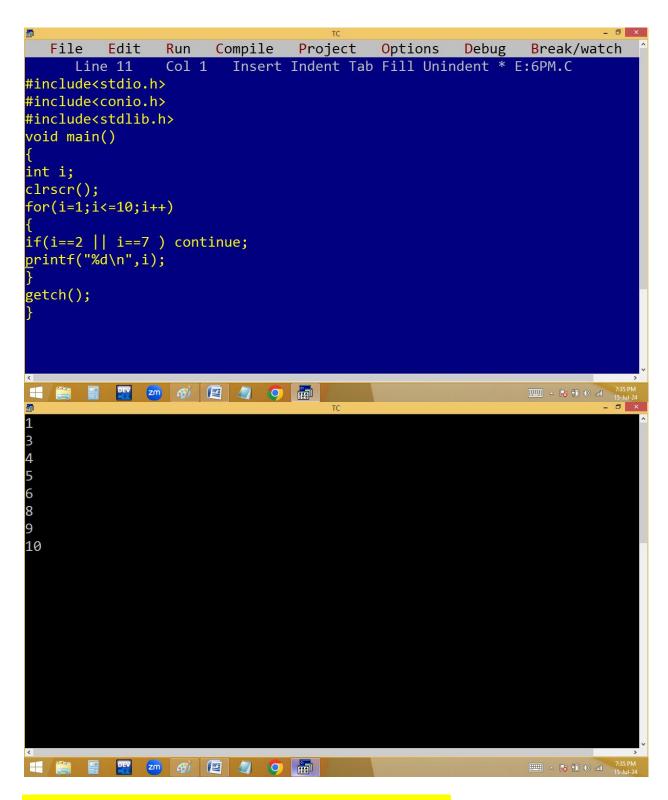
break	exit()	Return
Keyword	Function	Keyword
Header file not required	stdlib.h / process.h	Header file not required
	required	

Terminates switch / loop	Terminates total program	Closes that function only
Should be used within	Used any where	Used any where
switch/loop		

Continue: when continue word is occurred, the program execution jumped to end of the loop and later beginning of the loop. Due to this the remaining statements in that loop are not working. When we want to skip the statements in a loop then only use the continue keyword.



Printing 1 to 10 except 2 and 10.



Printing 1..10 odd numbers using continue:

```
_ 🗇 🗙
  File Edit
             Run
                  Compile Project Options Debug Break/watch
             Col 10 Insert Indent Tab Fill Unindent * E:6PM.C
    Line 10
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
int i;
clrscr();
for(i=1;i<=10;i++)
if(i%2==0_) continue;
printf("%d\n",i);
getch();
1
3
5
7
^ 7:36 PM
```

Even numbers:

