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

Eg: 1-50 → 1 to 9, 11, 22, 33, 44 → 13 palindromes

```
_ 🗆 ×
     Line 18
              Col 30 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
int n,i,j,rev,c=0;
clrscr();
printf("Enter n value "); scanf("%d",&n);
for(i=1;i<=n;i++)
for(rev=0, j=i;j!=0;j/=10)
rev=rev*10+(j%10);
if(i==rev)printf("%4d",i,c++);
printf("\n%d palindromes",c);
getch();
_____ ^ \ \ \
Enter n value 50
     2
            4
                5
                   6
                       7
                          8
                             9 11 22 33 44
13 palindromes
         9:32 A
```

```
- 🗇 ×
Enter n value 500
               5
  1 2
         3 4
                 6
                      7 8 9 11 22 33 44 55
                                                66 77
121 131 141 151 161 171 181 191 202 212 222 232 242 252 262 272 282 292 3
323 333 343 353 363 373 383 393 404 414 424 434 444 454 464 474 484 494
58 palindromes
        1-> 1 1210=1 0x10+1=1
 for( i=1; i<=n;i++)
 for( j=i,rev=0;j!=0;j/=10)
                                        2% 10= 2 0×10+1=2
                               X 10 10/10:0 0×10+0:0
 rev=rev*10+(j%10);
                                      1 1 10-1 0 x 10+1 = 1
 if(i==rev)p(i,c++);
                                               0×10+1=1
                                      11-10-1
                                      [XIO=1 [XIO+[=]]
```

Printing 1... prime no's and count:

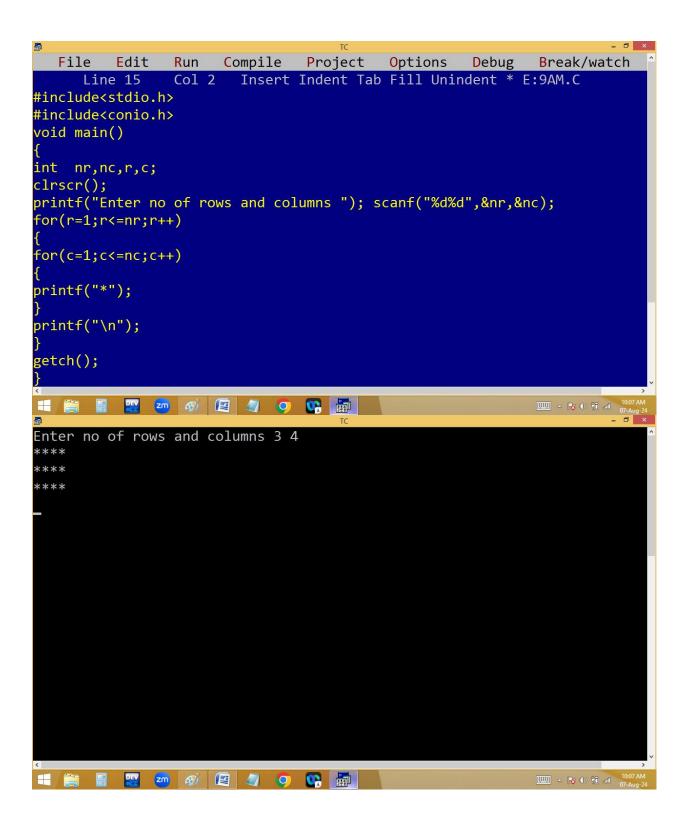
```
- 0 ×
#include<stdio.h>
#include<conio.h>
void main()
int n,i,j,rev,c,cnt=0;
clrscr();
printf("Enter n value "); scanf("%d",&n);
for(i=2;i<=n;i++)
for(c=0, j=1;j<=i;j++)
if(i%j==0)c++;
if(c==2)printf("%4d",i,cnt++);
printf("\n%d primes",cnt);
getch();
□□□□ △ 🎏 (I) 🛅 and 9:44 AM 07-Aug-
Enter n value 10
  2
     3
         5
4 primes
9:44 AM
```

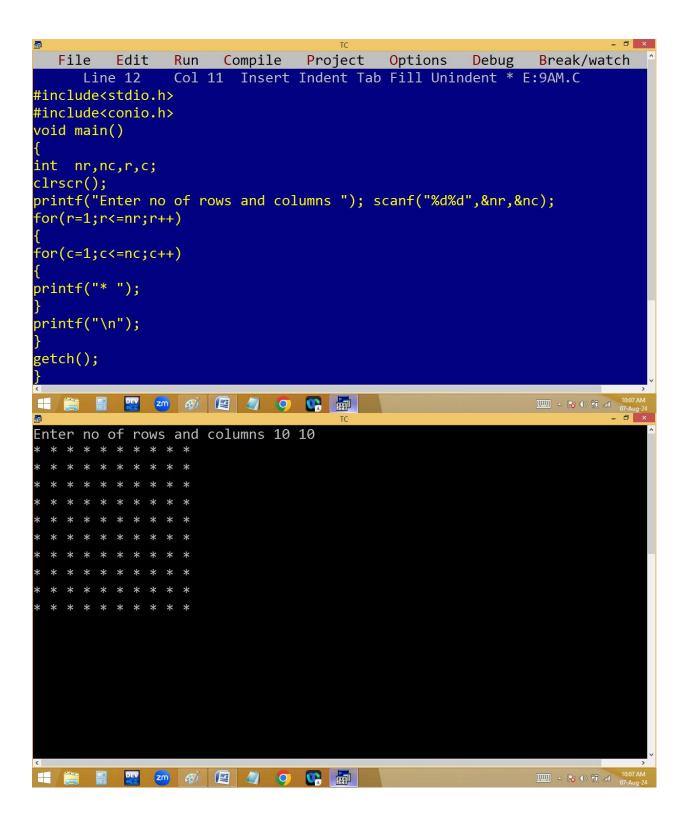
```
- 0 ×
Enter n value 100
        5
                 13 17 19 23 29 31 37 41 43 47
              11
 73 79 83 89
              97
25 primes_
        <u>cnt</u>
                                            <u>c</u>
                         5
for( i=2; i<=n; i++ )
                                            10
                                                     0
                         10
                                                     ١
 for( j=1,c=0; j<=i;j++)
                               3 /- 1=0
                                           012
 if(i%j==0)c++; <
                                           0123
 if(c==2) p("%d",i, cnt++);
                                4%2 5 0
                                          012
                            V 5%1=0
                                5%5=0
```

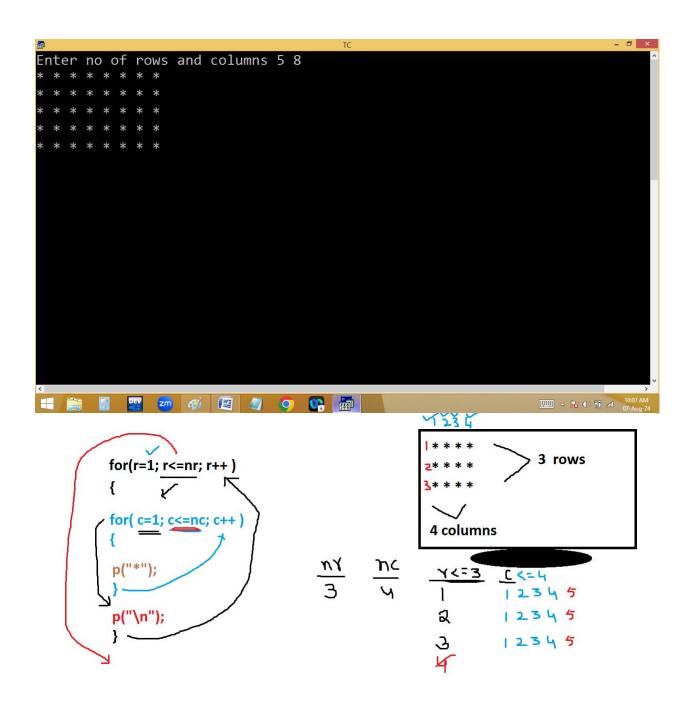
Printing n to n primes:

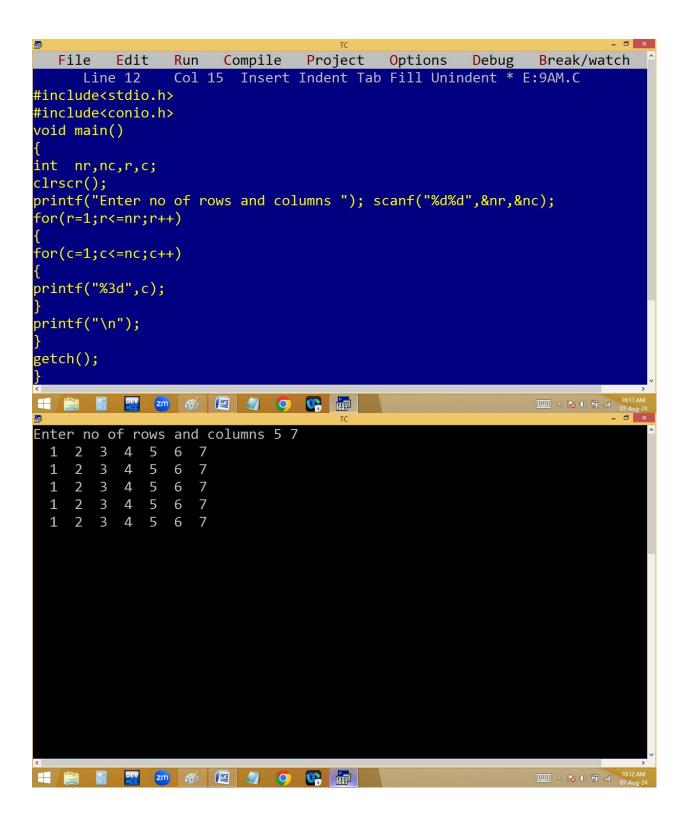
```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int n,i,j,rev,c,cnt=0;
clrscr();
printf("Enter starting and ending values "); scanf("%d%d",&i,&n);
if(i>n){int t=i; i=n;n=t;}
for( ;i<=n;i++)
for(c=0, j=1;j<=i;j++)
if(i%j==0)c++;
if(c==2)printf("%4d",i,cnt++);
printf("\n%d primes",cnt);
getch();
Enter starting and ending values 20 10
 11 13 17 19
4 primes_
9:49 AM
```

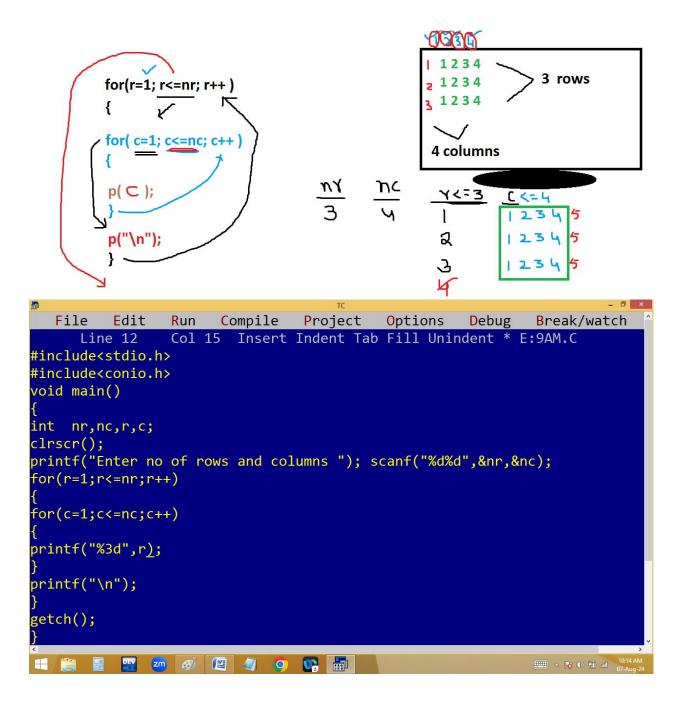
Patterns:

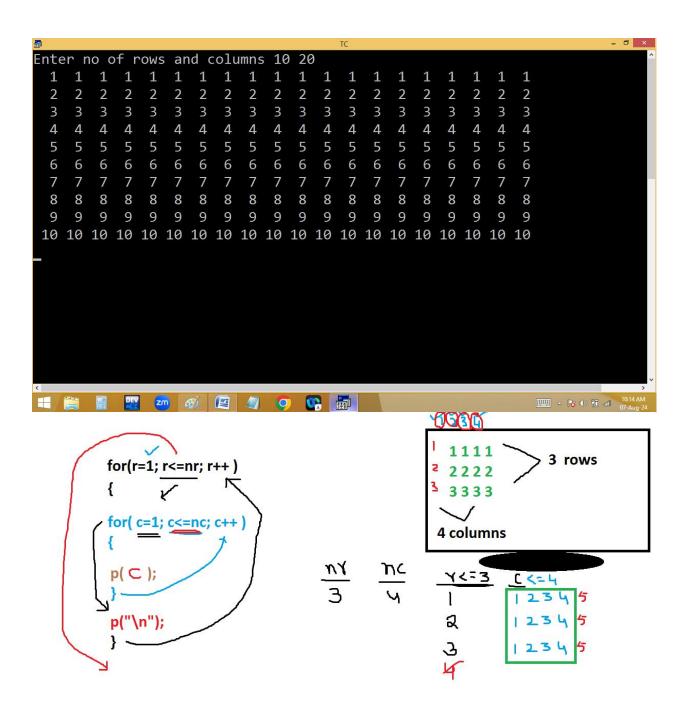


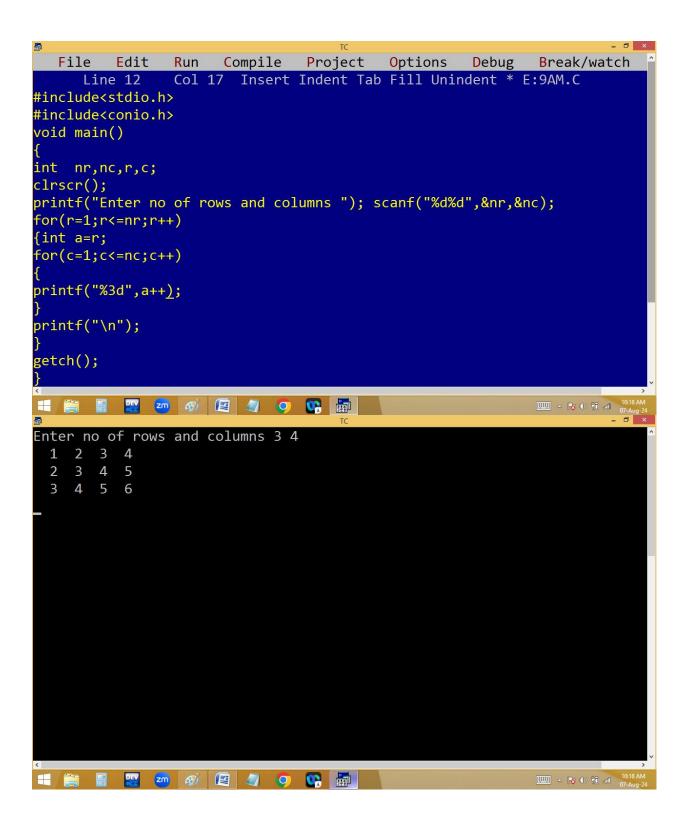


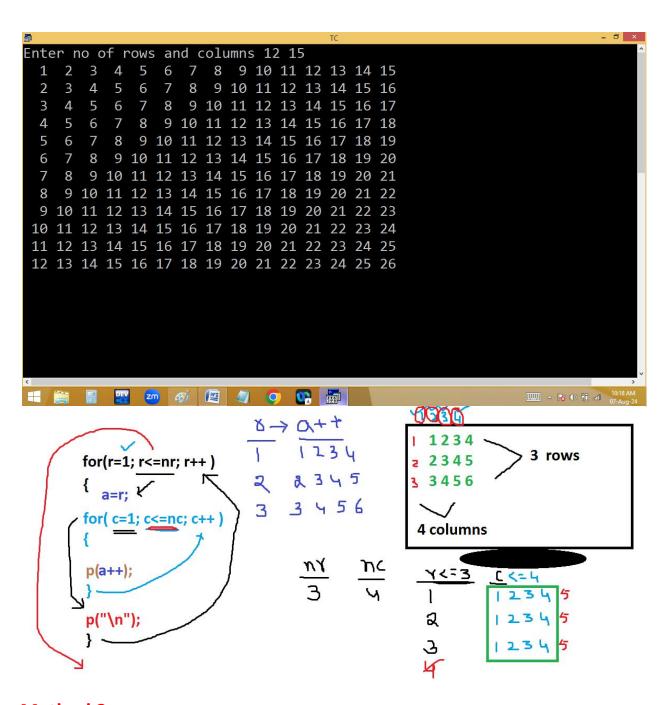




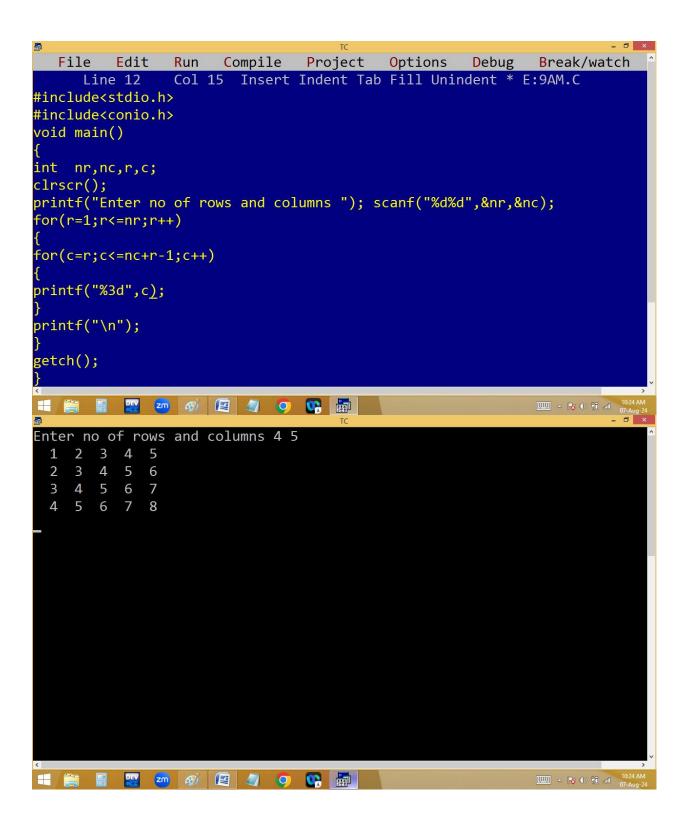


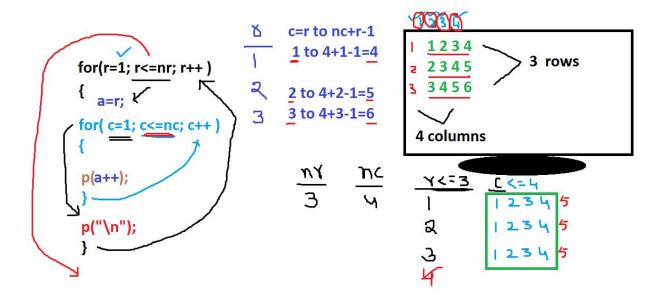




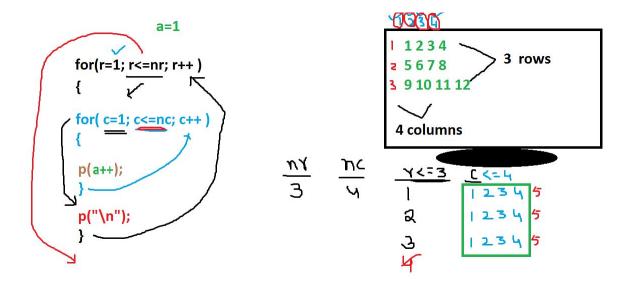


Method 2:





```
File Edit
               Run Compile Project Options Debug Break/watch
               Col 14 Insert Indent Tab Fill Unindent * E:9AM.C
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c,a=1;
clrscr();
printf("Enter no of rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)
printf("%3d",a++);
printf("\n");
getch();
Enter no of rows and columns 10 10
 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50
51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99100
□□□ △ 🕞 (b) 🛅 all 10:27 Al
```



```
File Edit
              Run
                    Compile Project Options Debug
                                                     Break/watch
              Col 53 Insert Indent Tab Fill Unindent * E:9AM.C
     Line 12
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c,a=0;
clrscr();
printf("Enter no of rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)</pre>
printf("\n");
getch();
         Enter no of rows and columns 10 20
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
20 19 18 17 16 15 14 13 12 11 10
                              9 8
                                   7
                                      6
                                         5
                                            4
                     9 10 11 12 13 14 15 16 17 18 19 20
           5
              6
                 7
                    8
20 19 18 17 16 15 14 13 12 11 10
                              9
                                 8
                                      6
                                         5
                                            4
            5
              6
                    8
                      9 10 11 12 13 14 15 16 17 18 19 20
20 19 18 17 16 15 14 13 12 11 10
                              9 8
                                      6
                                         5
                                            4
                                                   1
                     9 10 11 12 13 14 15 16 17 18 19 20
         4
            5
              6
                 7
                    8
20 19 18 17 16 15 14 13 12 11 10
                              9
                                 8
                                      6
                                         5
                                                   1
                                            4
            5
                 7 8 9 10 11 12 13 14 15 16 17 18 19 20
 1 2 3
         4
              6
20 19 18 17 16 15 14 13 12 11 10 9 8
         □□□ △ 😼 (I) 📆 📶 10:39 AN
```

```
DO330
           a=0
                                            1234
                                                          3 rows
for(r=1; r<=nr; r++)
                                           2 4321
                                          31234
{
                           4321
for( c=1; c<=nc; c++ )
                                           4 columns
                            <u>27</u>
                                    <u>سر</u>
if(r%2==0) p(a--);
                                            Y < = 3
                                                     C <= 4
else p(++a);
                                                       2345
                                            2 34
                                                      1234
p("\n");
                                                      1234
```