```
_ 🗆 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)
if(r%2==0)printf("%2c",96+c);else printf("%2c",64+c);
printf("\n");
getch();
_____ ^ [1] (1) all 28
Enter how many rows and columns 10 26
ABCDEFGHIJKLMNOPQRSTUVWXYZ
```

```
for( r=1; r<=4; r++)
{

for( c=1; c<=4; c++)
{

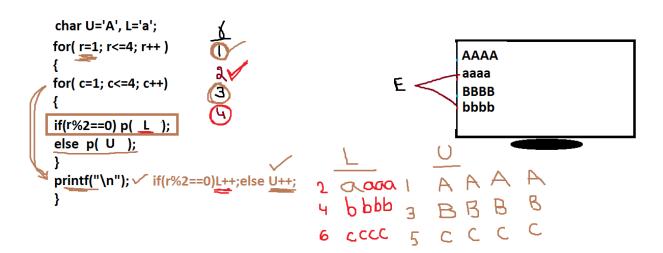
if(r%2==0) p(96+c);
else p(64+c);
}
printf("\n");
}
```



```
_ 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)
if(c%2==0)printf("%2c",96+c);else printf("%2c",64+c);
printf("\n");
getch();
   Enter how many rows and columns 10 26
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
□□□□□ △ 🔯 🗓 (b) and 02:26 P
```

```
_ 🗇 ×
   Line 17
          Col 52 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)
if(r%2==0)printf("%2c",96+r);else printf("%2c",64+r);
printf("\n");
getch();
Enter how many rows and columns 10 20
b b b b b b b b b b b b b b b b b b b
d d d d d d d d d d d d d d d d d
EEEEEEEEEEEEEEEEE
ffffffffffffffffffff
h h h h h h h h h h h h h h h h h h
□□□□□ △ 🔯 📆 ♦) and 28-Δug
```

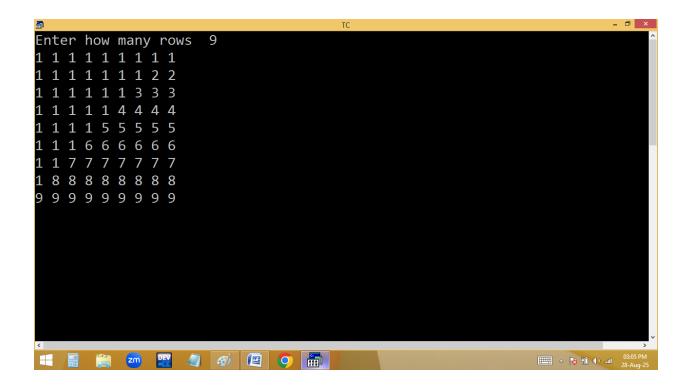
```
_ 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c; char U='A', L='a';
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)
if(r%2==0)printf("%2c",L);else printf("%2c",U);
getch();
Enter how many rows and columns 10 26
△ 🔯 🕆 (a) and 02:40 P
```



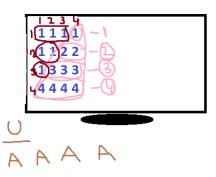
```
_ 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
{char U='A', L='a';
for(c=1;c<=nc;c++)
if(c%2==0)printf("%c",L++);else printf("%c",U++);
printf("\n");
getch();
Enter how many rows and columns 10 52
AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz
△ 😿 🛍 (b) and 02:51 PI
```

```
_ 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c; char ch='A';
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)
if(r==1||c==1||r==nr||c==nc)printf("* ");else printf("%c ",ch++);
if(ch>'Z')ch='A';
printf("\n");
getch();
   _____ ^ 1 (•) all 02:
Enter how many rows and columns 10 20
* A B C D E F G H I J K L M N O P Q R *
 STUVWXYZABCDEFGHIJ*
* K L M N O P Q R S T U V W X Y Z A B *
 CDEFGHIJKLMNOPQRST*
* U V W X Y Z A B C D E F G H I J K L *
 MNOPQRSTUVWXYZABCD*
* E F G H I J K L M N O P Q R S T U V *
 WXYZABCDEFGHIJKLMN*
□□□□□ △ 🔯 🗓 ♠ and 02:58 PI
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,r,c;
clrscr();
printf("Enter how many rows "); scanf("%d",&nr);
for(r=1;r<=nr;r++)
for(c=1;c<=nr;c++)
if(c<=nr-r)printf("1 ");else printf("%d ",r);</pre>
printf("\n");
getch();
△ 🐼 🗓 (*) 📶 03:0
Enter how many rows 4
1 1 1 1
1 1 2 2
1 3 3 3
4 4 4 4
□□□□□ △ 🔯 📆 🕪 📶 03:05 PM
```



```
_ 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,r,c;
clrscr();
printf("Enter how many rows "); scanf("%d",&nr);
for(r=1;r<=nr;r++)
for(c=1;c<=nr;c++)
if(c<=nr-r)printf("%3d",1);else printf("%3d",r);
printf("\n");
getch();
  Enter how many rows
      1
          1
             1
               1 1
                    1
                      1
                        1
                          1
                               1
                                 1
                 1
                    1
                      1
                        1
                          1
                               2 2
        1
          1
             1
               1
                             1
      1
        1
          1
             1
               1
                 1
                    1
                      1
                        1
                           1
                             3
                               3
                                 3
                    1
                      1
                        1
                           4
                             4
                               4
                                 4
        1
          1
             1
               1
                 1
   1
      1
        1
          1
                 1
                    1
                      1
                        5
                           5
                             5
                               5
                                 5
             1
               1
                      6
                           6
                             6
                               6
   1
      1
               1
                 1
                    1
                        6
                                 6
        1
          1
             1
   1
      1
                    7
                           7
                               7
                                 7
        1
          1
             1
               1
                 1
                      7
   1
      1
        1
               1
                 8
                    8
                      8
                        8
                          8
                             8
                               8
                                 8
          1
             1
   1
      1
        1
          1
             1
               9
                 9
                    9
                        9
                          9
                               9
                                 9
                      9
                             9
          1 10 10 10 10 10 10 10 10 10 10
        1 11 11 11 11 11 11 11 11 11 11 11
      □□□□□ △ 🔯 🗓 (b) and 03:08 PM
```



```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,r,c;
clrscr();
printf("Enter how many rows "); scanf("%d",&nr);
for(r=1;r<=nr;r++)
for(c=1;c<=nr;c++)
if(r==c)printf("1 ");else if(r>c)printf("2 ");else printf("0 ");
printf("\n");
getch();
△ 🔯 🗓 🕩 and 03:
Enter how many rows
1000000000
2100000000
2 2 1 0 0 0 0 0 0
222100000
222210000
2 2 2 2 2 1 0 0 0
2 2 2 2 2 2 1 0 0
2 2 2 2 2 2 2 1 0
2 2 2 2 2 2 2 2 1
△ 🔯 🕆 🖜 🕩 and 03:13 PM
```

```
for( r=1; r<=4; r++)

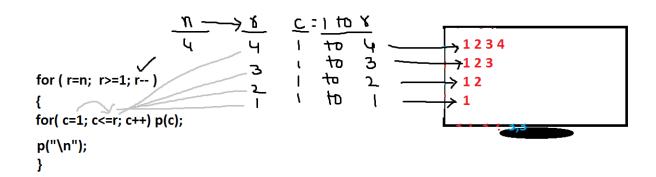
{
for( c=1; c<=4; c++)

{
    if(r==c)p(1);else if(r>c)p(2);
    else p(0);
    }
    printf("\n"); \checkmark
```

```
1 0 0
1,1 1,2 1,3
2 1 0
2,1 2,2 2,3
2 2 1
3,1 3,2 3,3
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,r,c; clrscr();
printf("Enter how many rows "); scanf("%d",&nr);
for(r=1;r<=nr;r++)
for(c=1;c<=nr;c++)
if(r==c){textcolor(LIGHTRED);cprintf("1 ");}
else if(r>c){textcolor(LIGHTGREEN);cprintf("2 ");}
else {textcolor(YELLOW);cprintf("0 ");}
printf("\n");
getch();
△ 🕏 🕆 🕩 📣 📶 03:15 P
Enter how many rows
 00000000
2 1 0 0 0 0 0 0 0
2 2 1 0 0 0 0 0 0
2 2 2 1 0 0 0 0 0
2 2 2 2 1 0 0 0 0
2 2 2 2 2 1 0 0 0
2 2 2 2 2 2 1 0 0
2 2 2 2 2 2 2 1 0
2 2 2 2 2 2 2 2 1
```

```
- 🗇 ×
                     Insert Indent Tab Fill Unindent * E:2PM.C
     Line 17
              Col 1
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
for(r=n;r>=1;r--)
for(c=1;c<=r;c++)
printf("%3d",c);
printf("\n");
getch();
△ 😿 🖺 (1) and 03:2
Enter how many rows
                 10
    2
            5
      3
         4
              6
                 7 8
                     9 10
    2
      3
            5
              6
                      9
         4
                    8
    2
         4
              6
                   8
    2
      3
            5
              6
         4
                 7
    2
       3
         4
            5
              6
    2
      3
         4
            5
    2
 1
       3
         4
    2
 1
      3
 1
    2
□□□□ △ 🔯 🗓 🕩 📶 03:23 PM
```

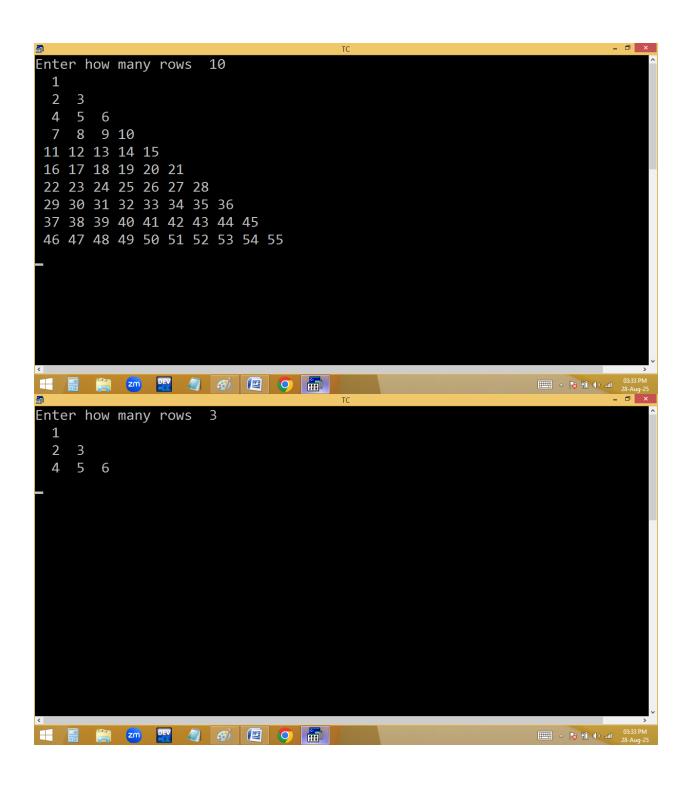


```
File Edit Run
                  Compile Project Options Debug Break/watch
             Col 10 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
for(c=1;c<=r;c++)
printf("%3d",c);
printf("\n");
getch();
□□□ △ 💽 🗓 (b) all 03:28-4
Enter how many rows 10
 1 2
    2
   2
      3
        4
    2
      3
        4
          5
    2
      3
        4 5
             6
    2
      3
        4
          5
    2
          5
      3
        4
             6 7 8
    2
      3
        4
           5
             6 7
                  8 9
           5
      3
        4
             6 7 8 9 10
```

```
Run Compile Project Options Debug Break/watch
  File Edit
             Col 11 Insert Indent Tab Fill Unindent * E:2PM.C
    Line 15
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
for(c=1;c<=r;c++)
printf("* ");
printf("\n");
getch(); _
△ 🔯 🗓 🕩 and 03:
Enter how many rows 10
```

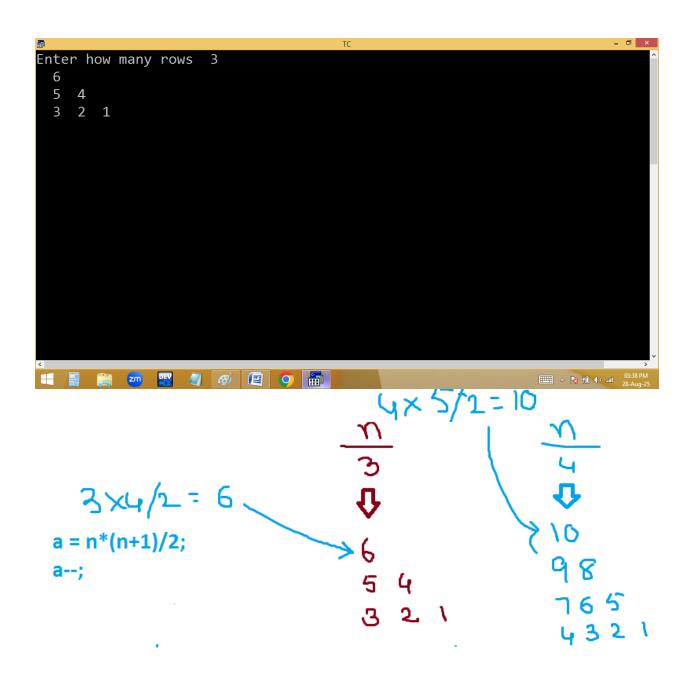
```
- 🗇 ×
                     Insert Indent Tab Fill Unindent * E:2PM.C
     Line 17
              Col 9
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
for(c=1;c<=r;c++)
if((r+c)%2==0)printf("$ ");else printf("* ");
printf("\n");
getch();
Enter how many rows 10
    * $ * $ * $
   * $ * $ * $ * $
△ 🔯 🗓 🕩 add 03:30 PM
```

```
- 🗇 ×
     Line 17 Col 17 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c,a=1; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
for(c=1;c<=r;c++)
printf("%3d",a++);
printf("\n");
getch();
△ 🐼 🗓 (*) 📶 03:3
Enter how many rows 5
 2 3
 4 5 6
 7 8 9 10
11 12 13 14 15
□□□□ △ 🔯 📆 🌖 and 03:32 PM
```



## **FLOYD'S TRIANGLE**

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c,a; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
a=n*(n+1)/2;
for(r=1;r<=n;r++)
for(c=1;c<=r;c++)
printf("%3d",a--);
printf("\n");
getch();
△ 🐼 🖺 (*) all 03:5
Enter how many rows 10
55
54 53
52 51 50
49 48 47 46
45 44 43 42 41
40 39 38 37 36 35
34 33 32 31 30 29 28
27 26 25 24 23 22 21 20
19 18 17 16 15 14 13 12 11
10 9 8 7 6 5 4 3 2 1
△ 🔯 🕆 🕩 🕩 ail 03:38 PM 28-Aug-25
```



```
- 🗇 ×
             Col 41 Insert Indent Tab Fill Unindent * E:2PM.C
    Line 17
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
for(c=1;c<=n;c++)
if(c<=n-r)printf(" "); else printf("*");</pre>
printf("\n");
getch();
△ 🐼 🖺 (*) all 03:4
Enter how many rows 10
```

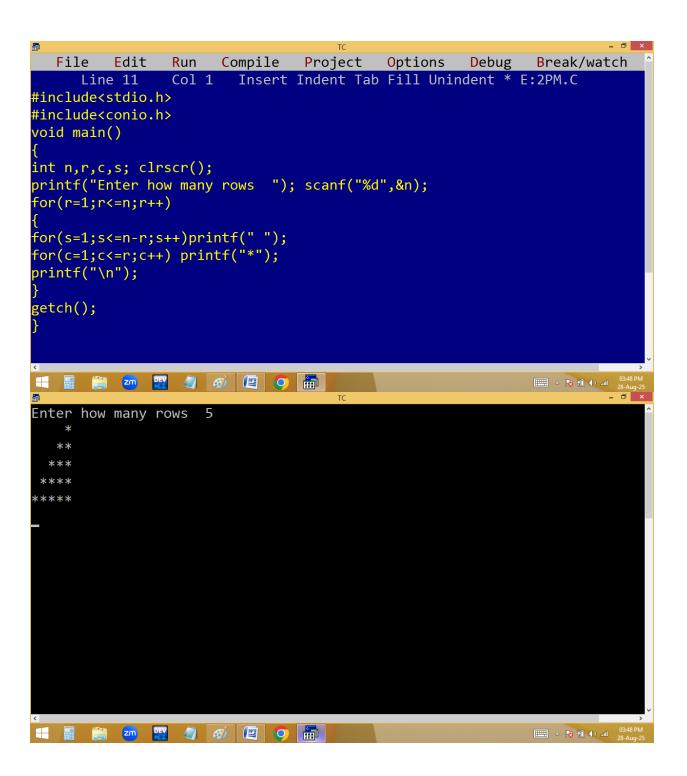
```
for( r=1; r<=4; r++)

{
for( c=1; c<=4; c++)

{
    if(c<=n-r)p(" ");else p(*);
}
p("\n");
```

```
\frac{1}{1} - \frac{1}{1} = \frac{3}{3} \frac{1 - 1}{1 - 2}
\frac{1}{1} - \frac{1}{3} = \frac{1}{1} - \frac{3}{3}
\frac{1}{1} - \frac{1}{3} = \frac{3}{1} - \frac{1}{3}
```





```
for(r=1; r<=4; r++)

{

for(s=1; s<=n-r; s++)p(""");

for(c=1; c<=r; c++)

{

p(*);

}

p("\n");
}
```

```
File Edit
              Run
                   Compile Project Options Debug Break/watch
              Col 29 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 10
#include<stdio.h>
#include<conio.h>
void main()
int n,r,c,s; clrscr();
printf("Enter how many rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
for(s=1;s<=n-r;s++)printf(" ");
for(c=1;c<=r;c++)    printf("* ");
printf("\n");
getch();
   △ 🔯 🗓 🕩 all 03:
Enter how many rows
```



