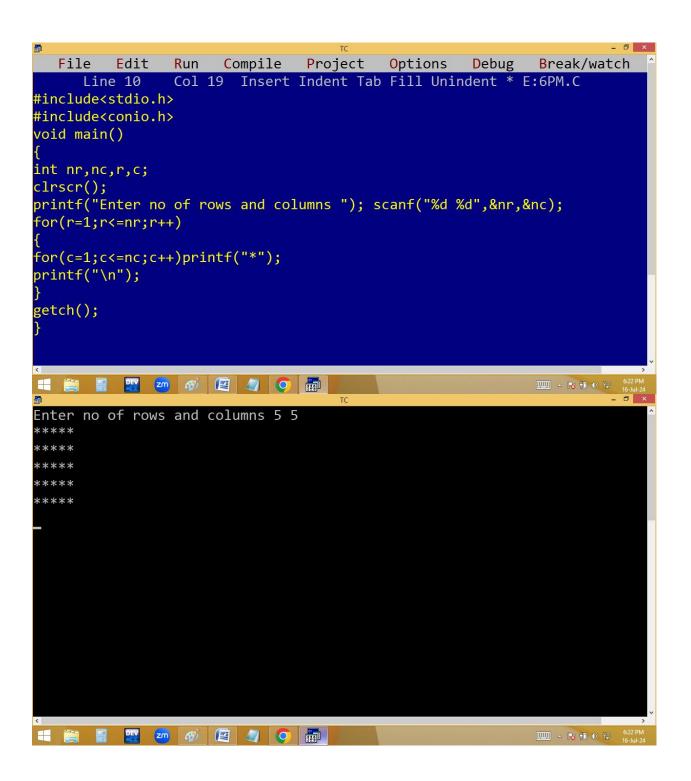
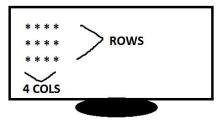
## **PATTERNS:**

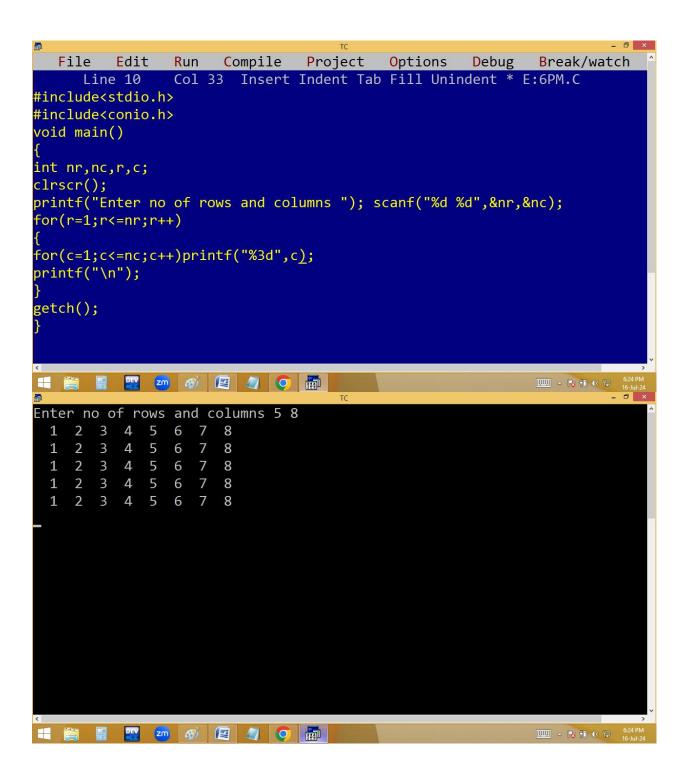
```
Line 17 Col 2 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)
printf("*");
printf("\n");
getch();
_ 🗇 🗙
Enter no of rows and columns 3 4
****
****
         ____ _ _ 6:21 PM
```



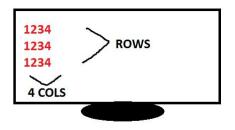
```
_ 🗇 🗴
  File Edit
              Run
                   Compile Project Options Debug Break/watch
              Col 29 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 10
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
for(c=1;c<=nc;c++)printf("* ");
printf("\n");
getch();
         Enter no of rows and columns 5 10
△ 🔯 👚 🕩 😭 6:23 PM
```

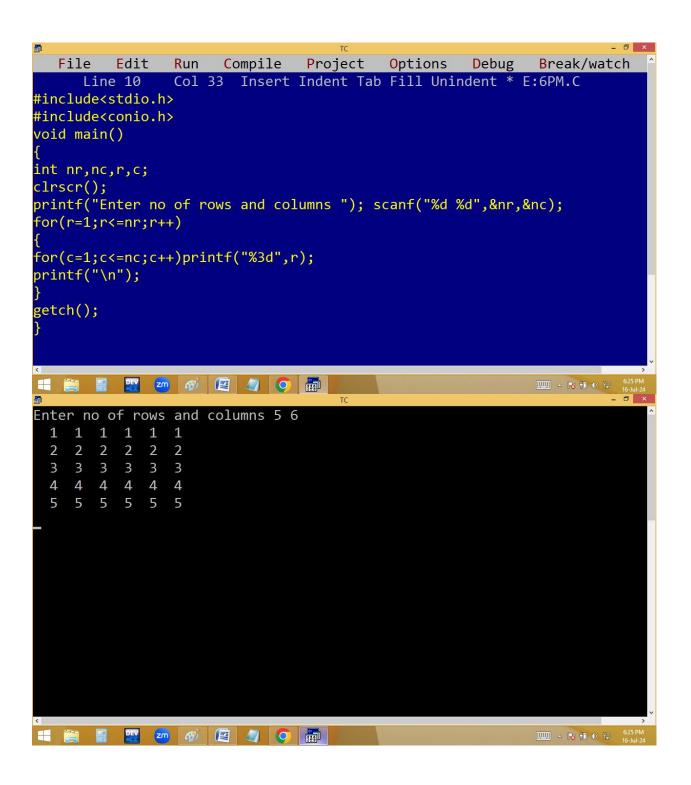
```
for(r=1; r<=3; r++)
{
    for(c=1; c<=4; c++)
    {
        p("*");
    }
    printf("\n");
}
```





```
for(r=1; r<=3; r++)
{
for(c=1; c<=4; c++)
{
p(c);
}
printf("\n");
}
```

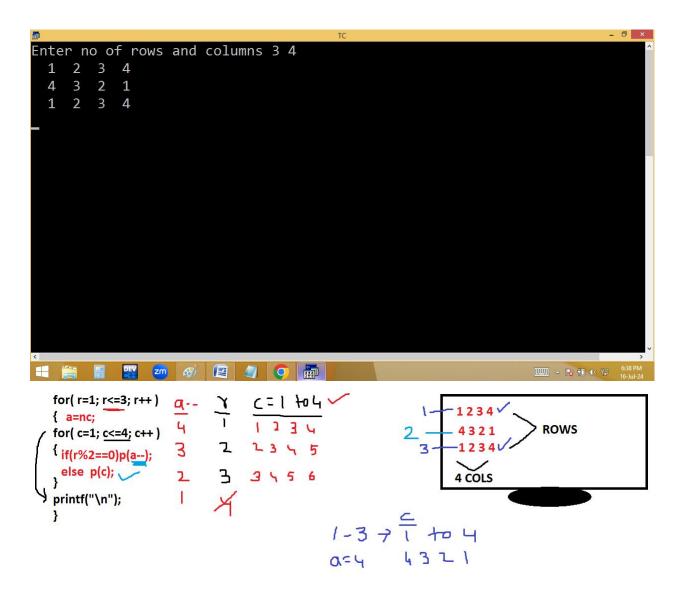




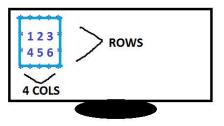
```
_ 0 ×
  File Edit
               Run
                     Compile Project Options Debug Break/watch
               Col 39 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 10
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c,a;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
for(a=r,c=1;c<=nc;c++)printf("%3d",a++);
printf("\n");
getch();
          rows and columns 4 5
Enter no of
    2
       3
          4
            5
    3
       4
          5
            6
    4
       5
          6
    5
       6
            8
         7
                                                        △ 🔯 🛈 🕪 😭 6:30 PM
      for( r=1; r<=3; r++ )
                                               1234
  { a=r;
                                               2345
                                                        ROWS
  for( c=1; c<=4; c++ )
                                               3456
                    Z
                        2345
  p( a++ );
                3
                        3456
                                               4 COLS
 printf("\n");
```

```
_ 0 ×
  File Edit
               Run
                    Compile Project Options Debug Break/watch
               Col 37 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 10
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
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",c+r-1);
printf("\n");
getch();
         Enter no of rows and columns 10 10
    2
       3
         4
            5
               6
                    8
                      9 10
                  7
         5
            6
      4
               7
                  8 9 10 11
       5
         6
               8
                  9 10 11 12
    5
            8 9 10 11 12 13
       6
         7
    6
            9 10 11 12 13 14
         8
       8 9 10 11 12 13 14 15
      9 10 11 12 13 14 15 16
   9 10 11 12 13 14 15 16 17
 9 10 11 12 13 14 15 16 17 18
10 11 12 13 14 15 16 17 18 19
     ____ ^ ₹ 10 (a) 12 6:32 PM
```

```
_ 🗇 🗙
  File Edit
                Run Compile Project Options Debug Break/watch
                Col 74 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 10
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c,a;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
for(a=nc, c=1;c<=nc;c++)if(r%2==0)printf("%3d",a--);else printf("%3d",c);_
printf("\n");
getch();
          w zm 🔊 🕮 🕢 🧿 🛅
                                                         6:38 PM
```



```
- 0 ×
#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++)
if(c==1||r==1||c==nc||r==nr)printf("%3c",'*');else printf("%3d",a++);
printf("\n");
getch();
         Enter no of rows and columns 4 5
    1 2
         3
    4
      5
         6
E 6:43 PM
16-Jul-24
```



```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c,o=1,e=2;
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++)
if(r%2==0){printf("%3d",e);e+=2;}else {printf("%3d",o);o+=2;}
printf("\n");
getch();
Enter no of rows and columns 5 5
 1 3 5 7 9
 2 4 6 8 10
11 13 15 17 19
12 14 16 18 20
21 23 25 27 29
____ ^ R 1 ( ) 1 ( ) 16-Jul-24
```

```
- 🗇 ×
      Line 17
                 Col 58 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c,o=-1,e=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++)
if(r%2==0)printf("%3d",e,e+=2);else printf("%3d",o,o+=2);
printf("\n");
getch();
          Enter no of
           rows and columns 10 10
     3 5
           7 9 11 13 15 17 19
          8 10 12 14 16 18 20
      6
21 23 25 27 29 31 33 35 37 39
22 24 26 28 30 32 34 36 38 40
41 43 45 47 49 51 53 55 57 59
42 44 46 48 50 52 54 56 58 60
61 63 65 67 69 71 73 75 77 79
62 64 66 68 70 72 74 76 78 80
81 83 85 87 89 91 93 95 97 99
82 84 86 88 90 92 94 96 98100
          ____ ^ ₹ 1 () 1 6:51 PM
                  7
7
1
1
1
1
1
1
1
  e=0: o=-1
  for( r=1; r<=3; r++ )
                          C=1 +04
                                                    3 5 7
                                                  2 4 6 8
                                                             ROWS
  for( c=1; c<=4; c++ )
                                                  9 11 13 15
                          2345
                                                  10 12 14 16
 if(r%2)p(o ;o+=2; else p(e ,
                                                   4 COLS
  printf("\n");
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
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("%2c",64+c);
printf("\n");
getch();
        ■ - R 11 () 12
Enter no of rows and columns 10 26
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
   △ 🔯 🛍 🕩 😭 6:54 PM
  for( r=1; r<=3; r++ )
                    C=1 +04
                                      ABCD
                 164+1 23 4
                                      ABCD
                                              ROWS
  for( c=1; c<=4; c++ )
                                      ABCD
                 264+1 23 4
  p( 64+c );
                 364+1 234
                                      4 COLS
  printf("\n");
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
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("%2c",96+c);
printf("\n");
getch();
■ - R 11 () 12
Enter no of rows and columns 10 26
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
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
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
△ 🔯 🛍 🕩 😭 6:55 P
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
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("\n");
getch();
■ - R 11 () 12
Enter no of rows and columns 10 26
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
△ 🔯 🛍 🕩 😭 6:56 P
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
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++)
if(c%2==0)printf("%2c",96+c); else printf("%2c",64+c);
printf("\n");
getch();
■ ^ 1 1 0 1 .
Enter no of 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
____ ^ ₹ 11 (1) 12 6:58 P
```

```
- 0 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c; char a;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
for(a=64+nc, c=1;c<=nc;c++)
printf("\n");
getch();
■ ^ № 11 () ?
Enter no of rows and columns 10 26
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ZYXWVUTSRQPONMLKJIHGFEDCBA
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ZYXWVUTSRQPONMLKJIHGFEDCBA
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ZYXWVUTSRQPONMLKJIHGFEDCBA
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ZYXWVUTSRQPONMLKJIHGFEDCBA
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ZYXWVUTSRQPONMLKJIHGFEDCBA
- N 11 (1) 12 7:04 P
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c; char a;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
for(a=64+nc, c=1;c<=nc;c++)
printf("%2c",64+r);
printf("\n");
getch();
Enter no of rows and columns 10 10
AAAAAAAAA
B B B B B B B B B
DDDDDDDDD
EEEEEEEEE
FFFFFFFFF
GGGGGGGG
HHHHHHHHH
IIIIIIIII
J J J J J J J J J J
____ ^ 7:06 PM
```

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c; char U='A', L='a';
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++)
if(r%2==0)L++; else U++;
printf("\n");
getch();
- R 11 0 2
Enter no of rows and columns 14
a a a a a a a a a a a a a a a a a a
ccccccccccccccccc
cccccccccccccc
D D D D D D D D D D D D D D D D D D
d d d d d d d d d d d d d d d d d
EEEEEEEEEEEEEEEEEE
e e e e e e e e e e e e e e e e e
FFFFFFFFFFFFFFFF
ffffffffffffffffffffff
GGGGGGGGGGGGGG
gggggggggggggggg
____ ^ 7:20 F
```

```
_ 0 ×
#include<stdio.h>
#include<conio.h>
void main()
int nr,nc,r,c;
clrscr();
printf("Enter no of 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++)
printf("\n");
getch();
Enter no of rows and columns 10 52
AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz
- R 10 (1) 12 7:29 F
```