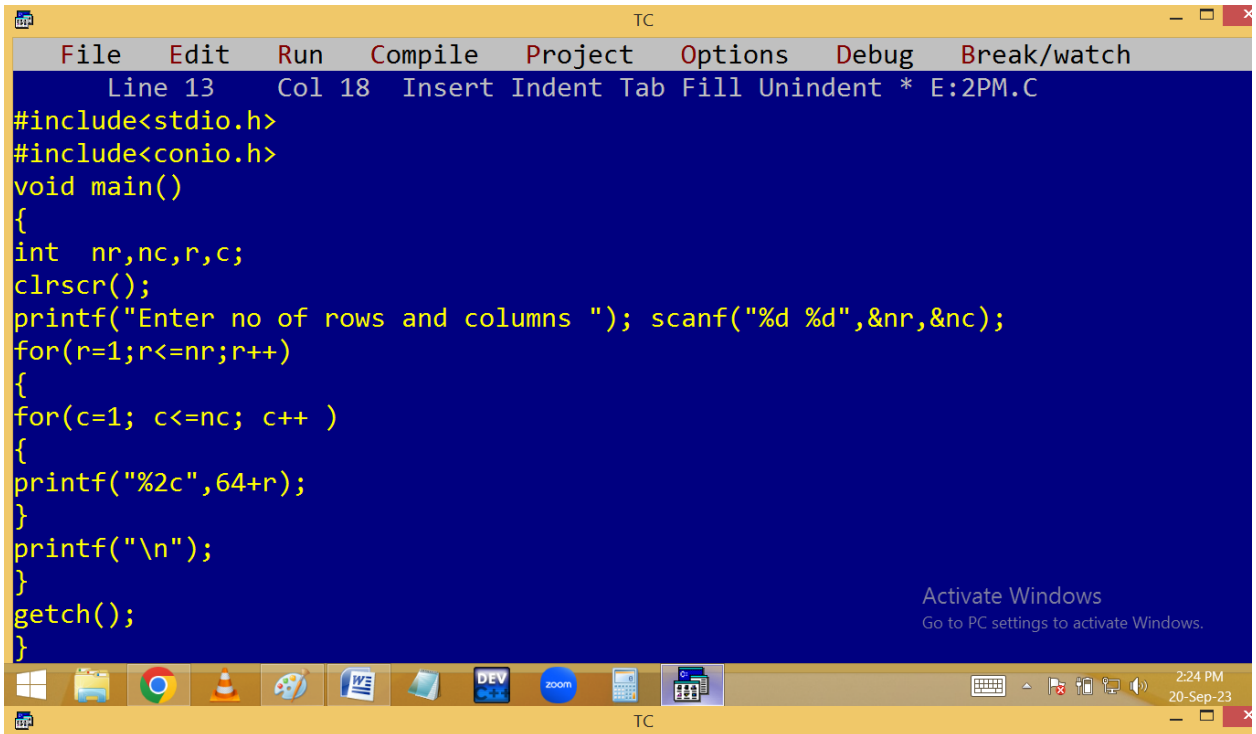
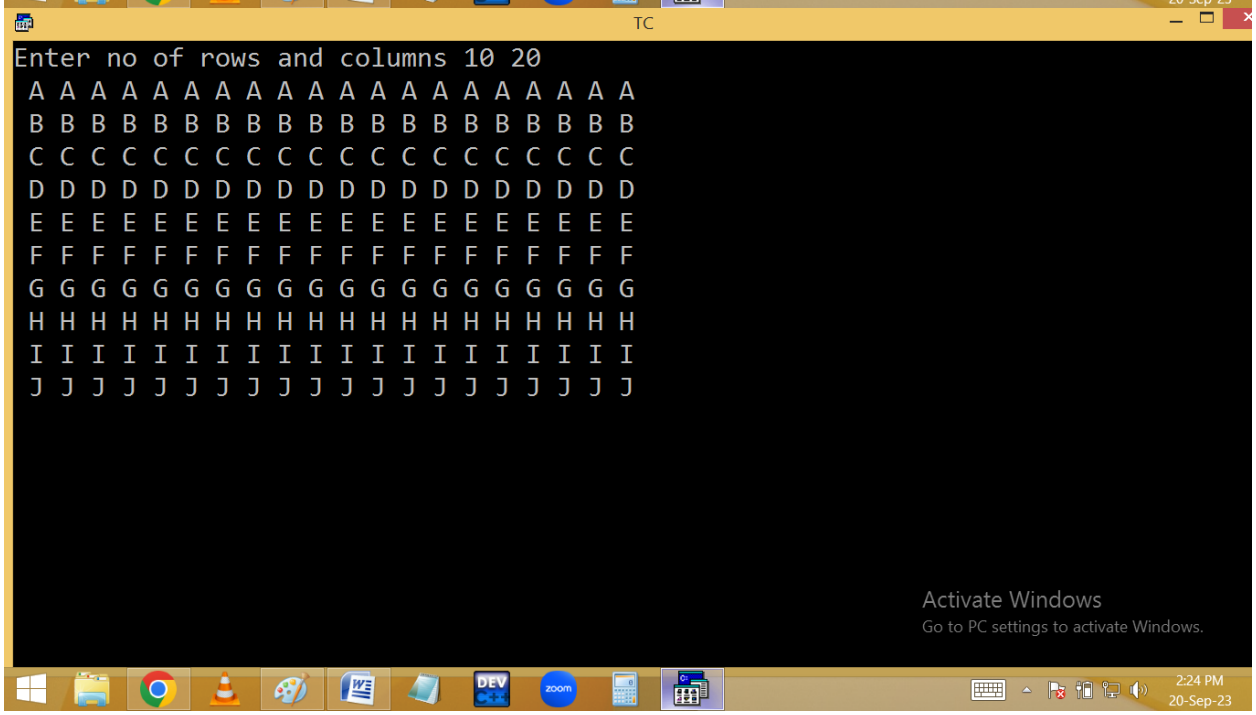
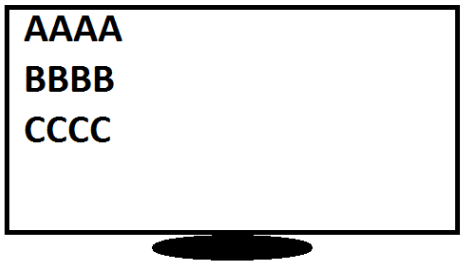

TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 18 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
{
for(c=1; c<=nc; c++)
{
printf("%2c",64+r);
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
2:24 PM
20-Sep-23

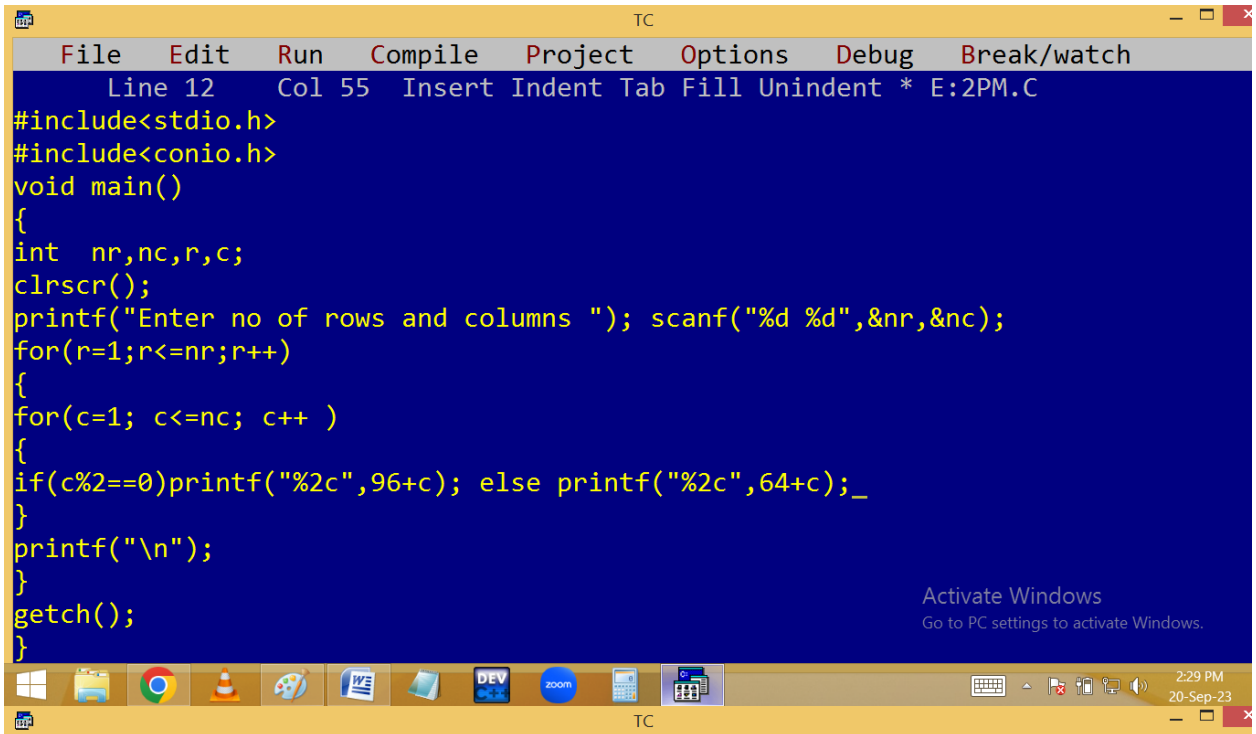

TC
Enter no of rows and columns 10 20
A A A A A A A A A A A A A A A A A A A A
B B B B B B B B B B B B B B B B B B B B
C C C C C C C C C C C C C C C C C C C C
D D D D D D D D D D D D D D D D D D D D
E E E E E E E E E E E E E E E E E E E E
F F F F F F F F F F F F F F F F F F F F
G G G G G G G G G G G G G G G G G G G G
H H H H H H H H H H H H H H H H H H H H
I I I I I I I I I I I I I I I I I I I I
J J J J J J J J J J J J J J J J J J J J
Activate Windows
Go to PC settings to activate Windows.
2:24 PM
20-Sep-23

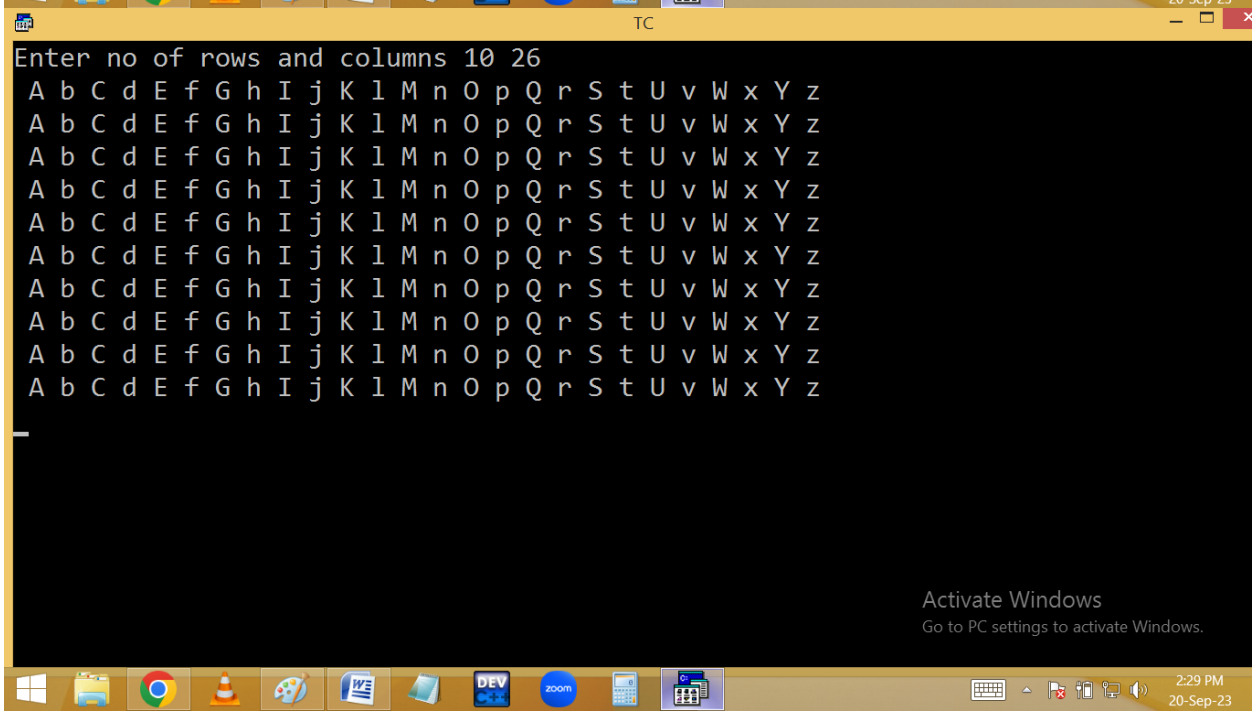
```
for( r=1; r<=3; r++)
{
for( c=1; c<=4; c++ )
{
p("%2c", 64+r);
}
p("\n");
}
```

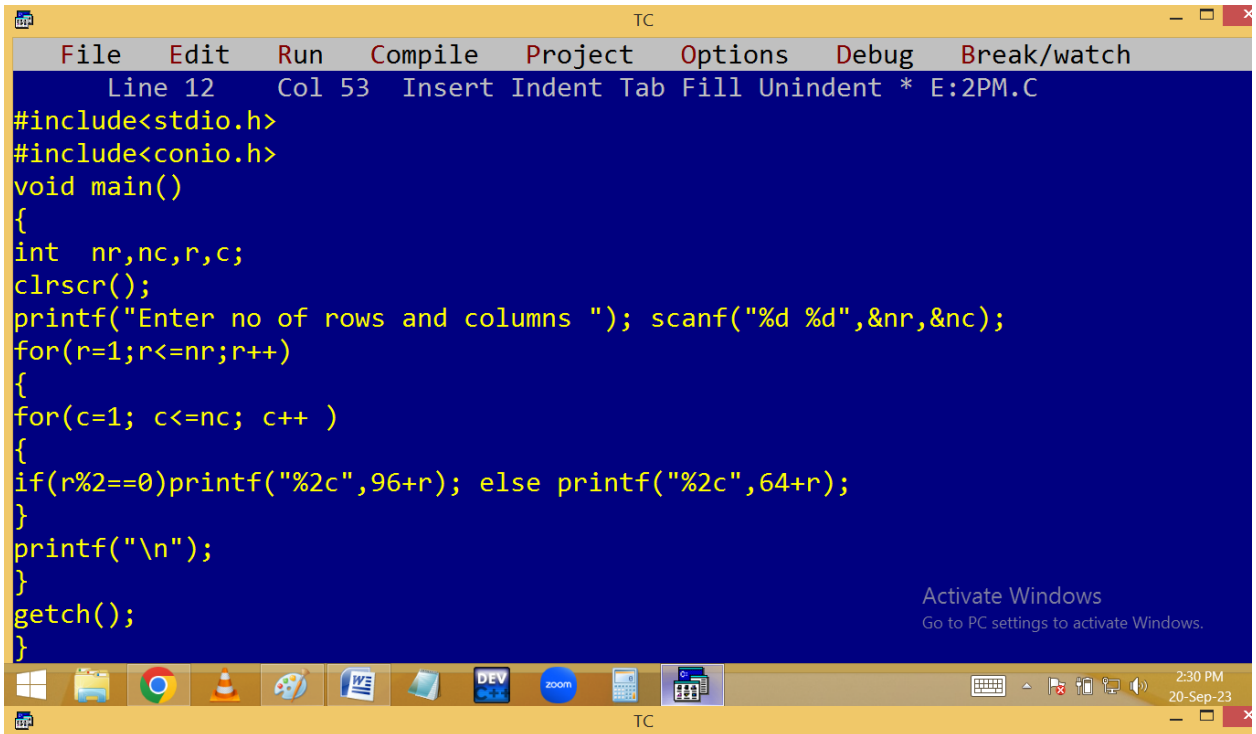


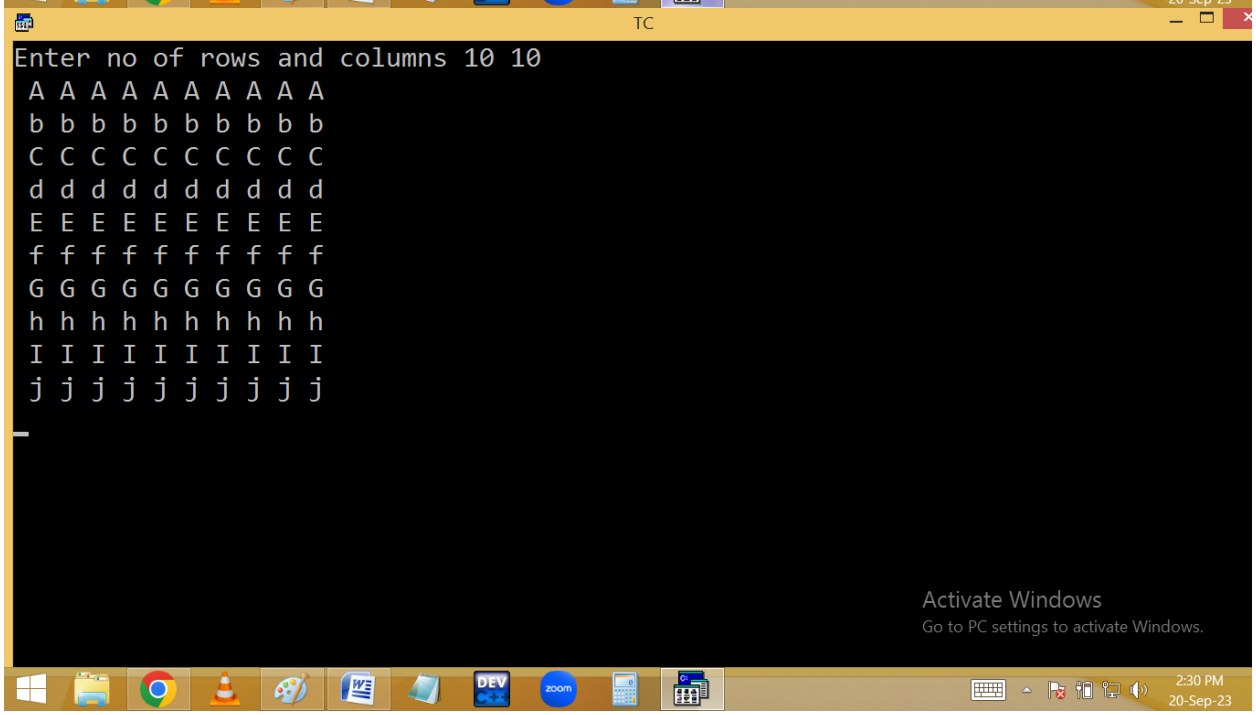
```
TC
File   Edit   Run   Compile   Project   Options   Debug   Break/watch
     Line 12    Col 18  Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int  nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
{
for(c=1; c<=nc; c++ )
{
printf("%2c",64+c);
}
printf("\n");
}
getch();
}
```

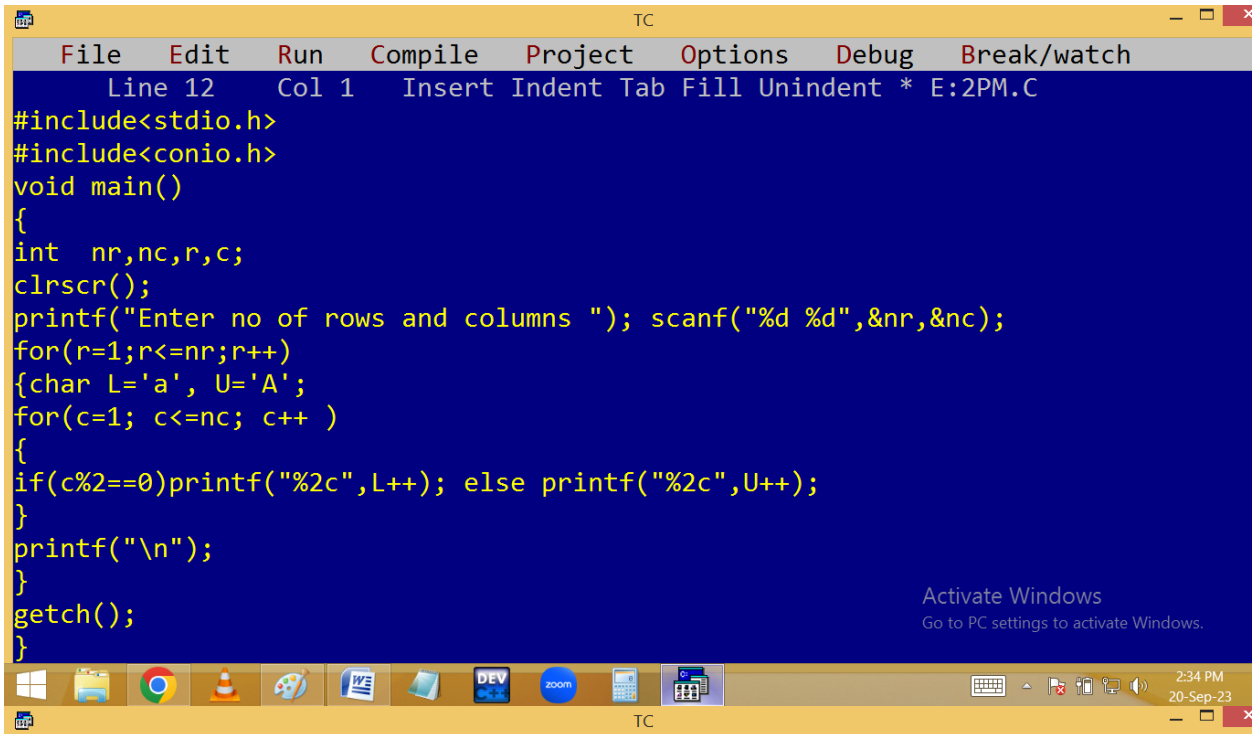
```
TC
Enter no of rows and columns 10 26
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 A B C D E F G H I J K L M N O P Q R S T U V W 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
```

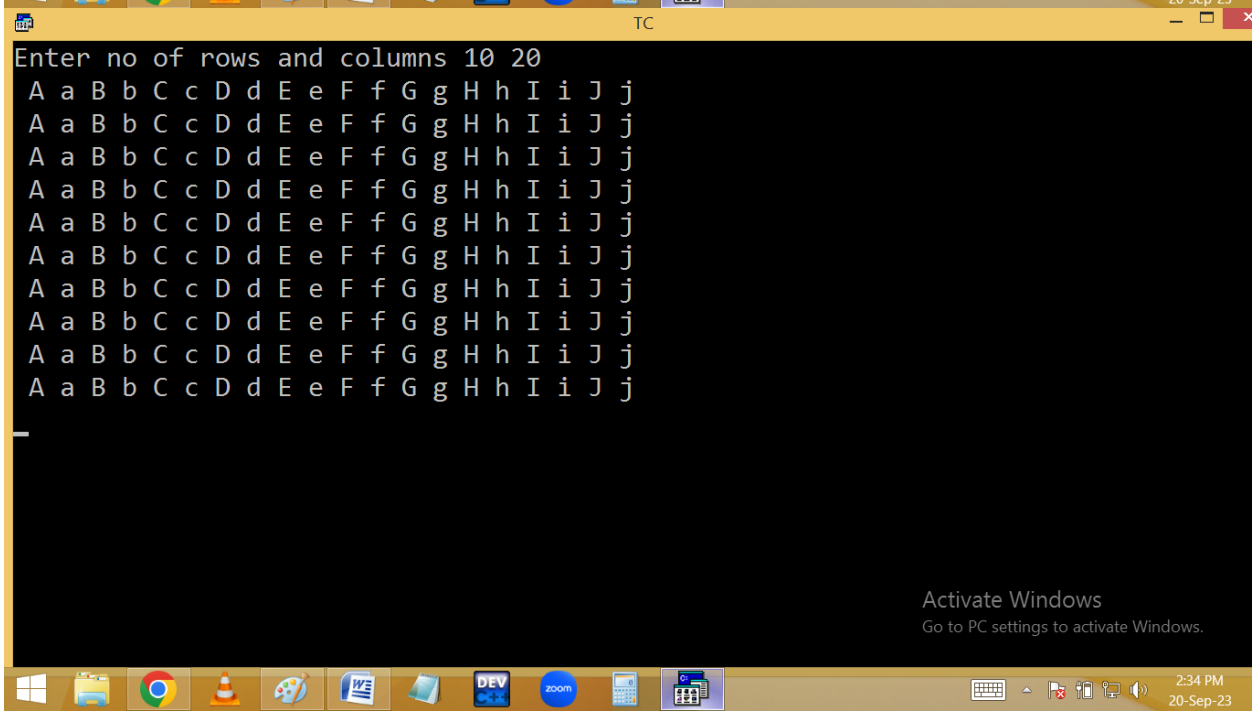

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 55 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
{
for(c=1; c<=nc; c++)
{
if(c%2==0)printf("%2c",96+c); else printf("%2c",64+c);_
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
2:29 PM
20-Sep-23

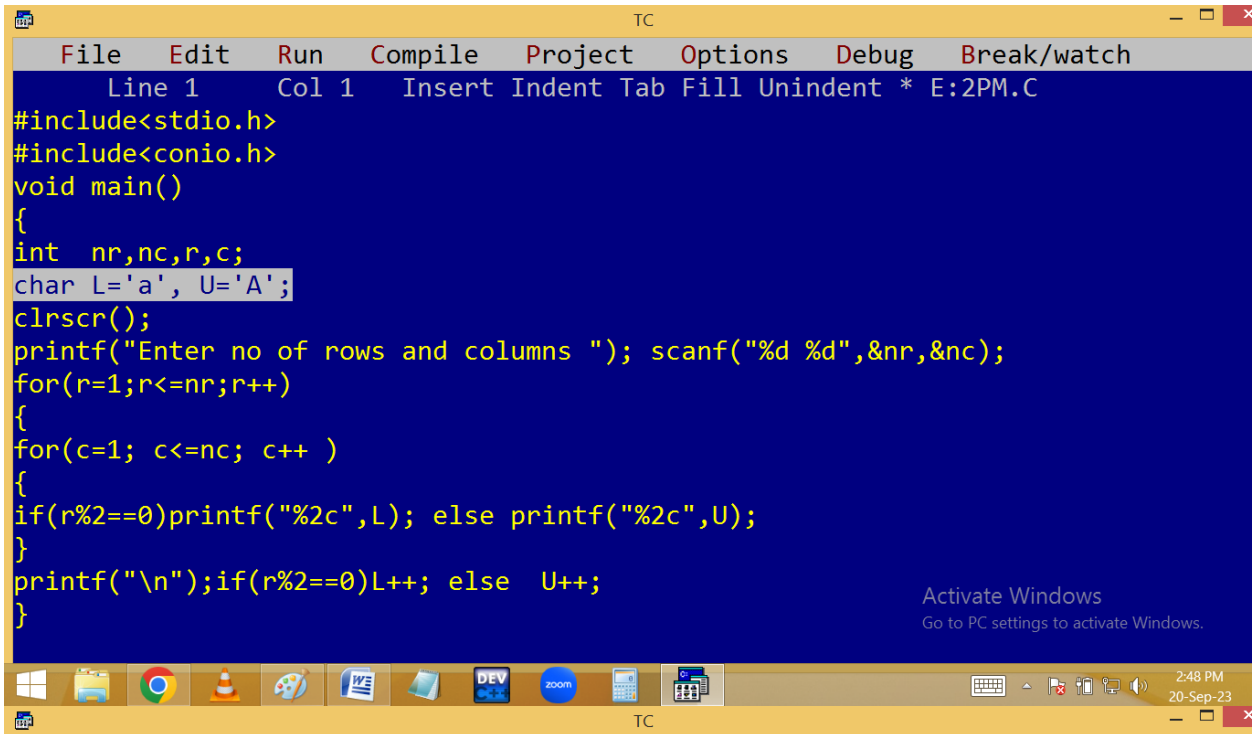

TC
Enter no of rows and columns 10 26
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b C d E f G h I j K l M n O p Q r S t U v W x Y z
A b 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
Activate Windows
Go to PC settings to activate Windows.
2:29 PM
20-Sep-23

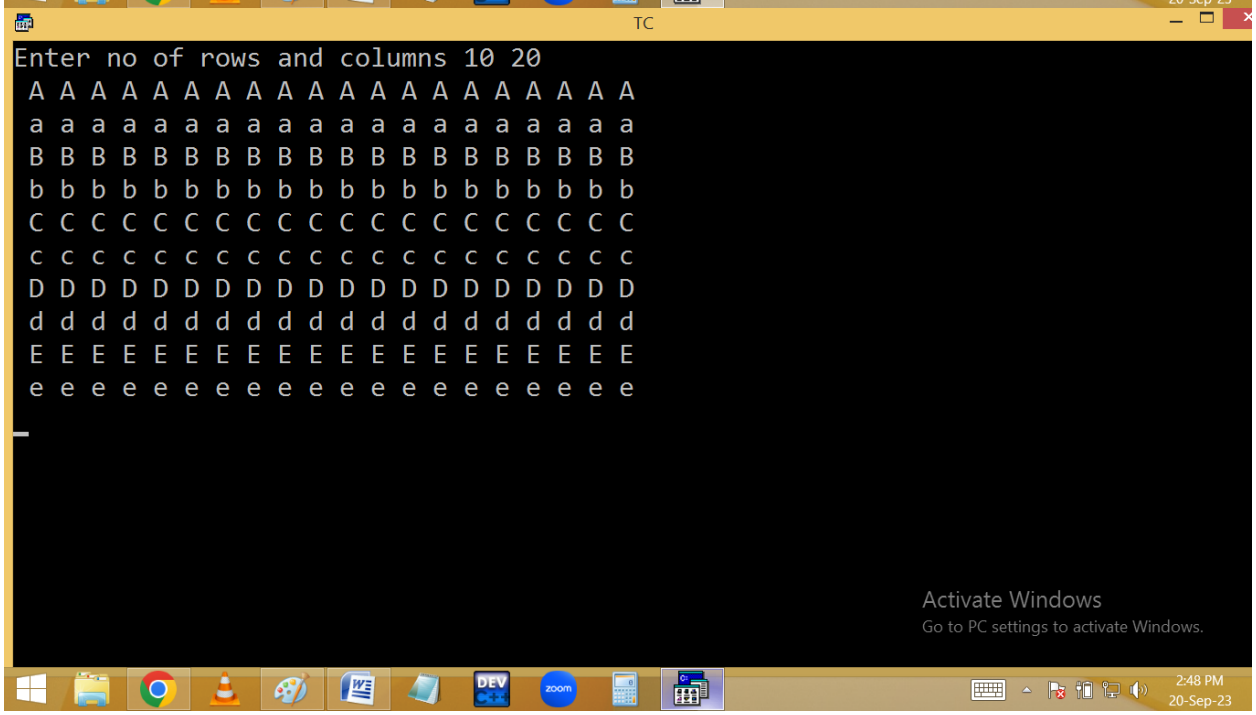

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 53 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
{
for(c=1; c<=nc; c++)
{
if(r%2==0)printf("%2c",96+r); else printf("%2c",64+r);
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
2:30 PM
20-Sep-23

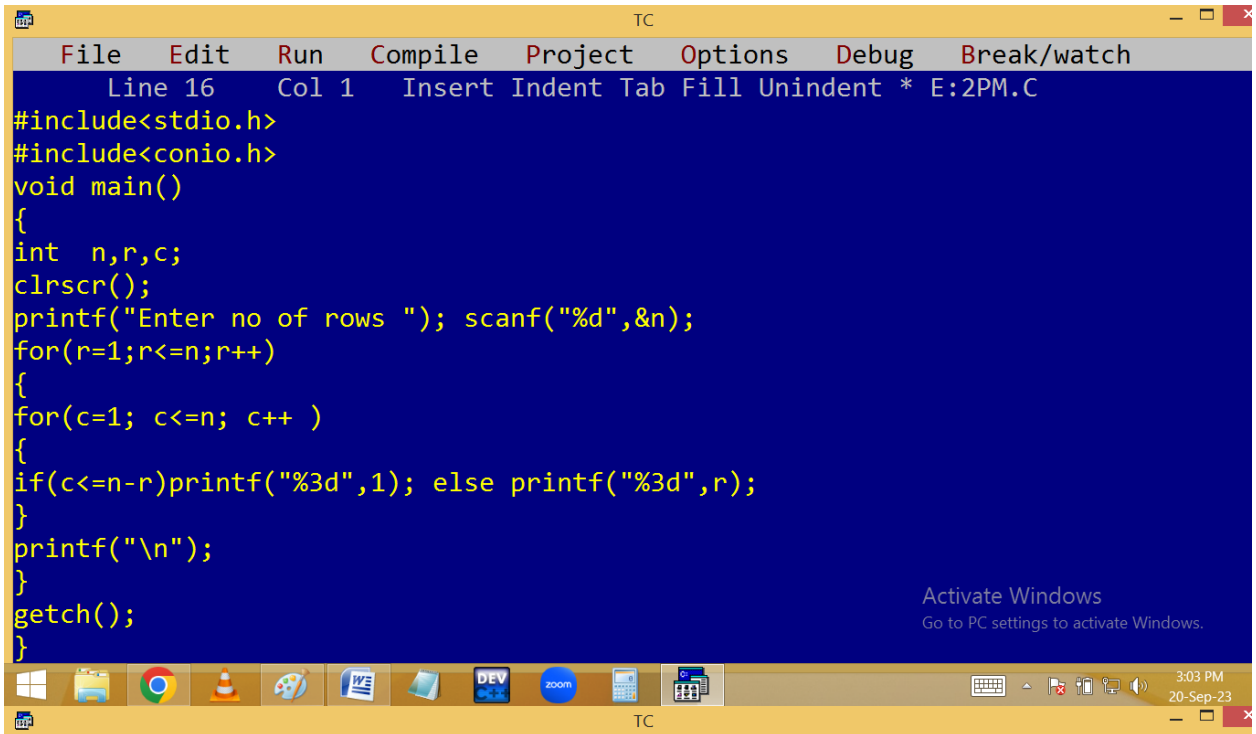

TC
Enter no of rows and columns 10 10
A A A A A A A A A A
b b b b b b b b b b
C C C C C C C C C C
d d d d d d d d d d
E E E E E E E E E E
f f f f f f f f f f
G G G G G G G G G G
h h h h h h h h h h
I I I I I I I I I I
j j j j j j j j j j
Activate Windows
Go to PC settings to activate Windows.
2:30 PM
20-Sep-23

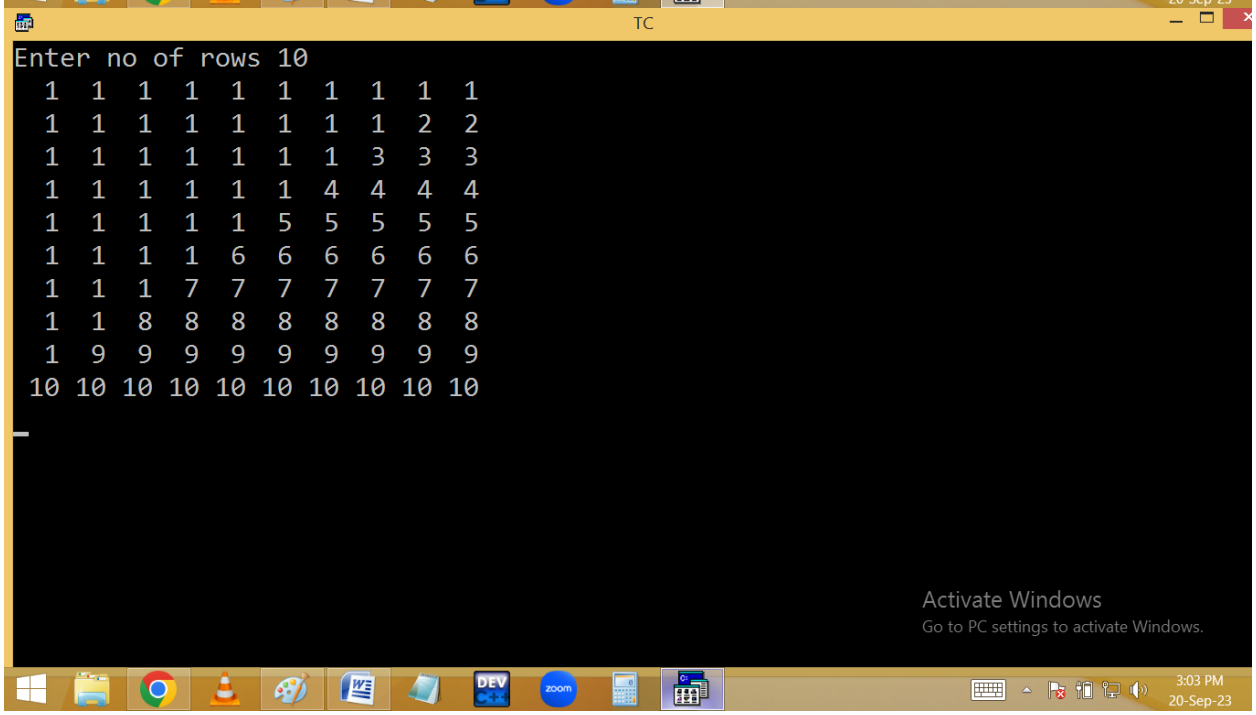

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns "); scanf("%d %d",&nr,&nc);
for(r=1;r<=nr;r++)
{char L='a', U='A';
for(c=1; c<=nc; c++)
{
if(c%2==0)printf("%2c",L++); else printf("%2c",U++);
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
2:34 PM
20-Sep-23


TC
Enter no of rows and columns 10 20
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
A a B b C c D d E e F f G g H h I i J j
Activate Windows
Go to PC settings to activate Windows.
2:34 PM
20-Sep-23


TC
File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c;
char L='a', U='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)printf("%2c",L); else printf("%2c",U);
}
printf("\n");if(r%2==0)L++; else U++;
}
Activate Windows
Go to PC settings to activate Windows.
2:48 PM
20-Sep-23


TC
Enter no of rows and columns 10 20
A A A A A A A A A A A A A A A A A A A A
a a a a a a a a a a a a a a a a a a a a
B B B B B B B B B B B B B B B B B B B B
b b b b b b b b b b b b b b b b b b b b
C C C C C C C C C C C C C C C C C C C C
c c c c c c c c c c c c c c c c c c c c
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 d d d d d
E E E E E E E E E E E E E E E E E E E E
e e e e e e e e e e e e e e e e e e e e
Activate Windows
Go to PC settings to activate Windows.
2:48 PM
20-Sep-23


TC
File Edit Run Compile Project Options Debug Break/watch
Line 16 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,r,c;
clrscr();
printf("Enter no of rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
{
for(c=1; c<=n; c++)
{
if(c<=n-r)printf("%3d",1); else printf("%3d",r);
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
3:03 PM
20-Sep-23

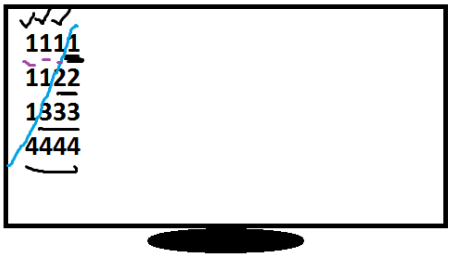

TC
Enter no of rows 10
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 2 2
1 1 1 1 1 1 1 3 3 3
1 1 1 1 1 1 4 4 4 4
1 1 1 1 1 5 5 5 5 5
1 1 1 1 6 6 6 6 6 6
1 1 1 7 7 7 7 7 7 7
1 1 8 8 8 8 8 8 8 8
1 9 9 9 9 9 9 9 9 9
10 10 10 10 10 10 10 10 10 10
Activate Windows
Go to PC settings to activate Windows.
3:03 PM
20-Sep-23

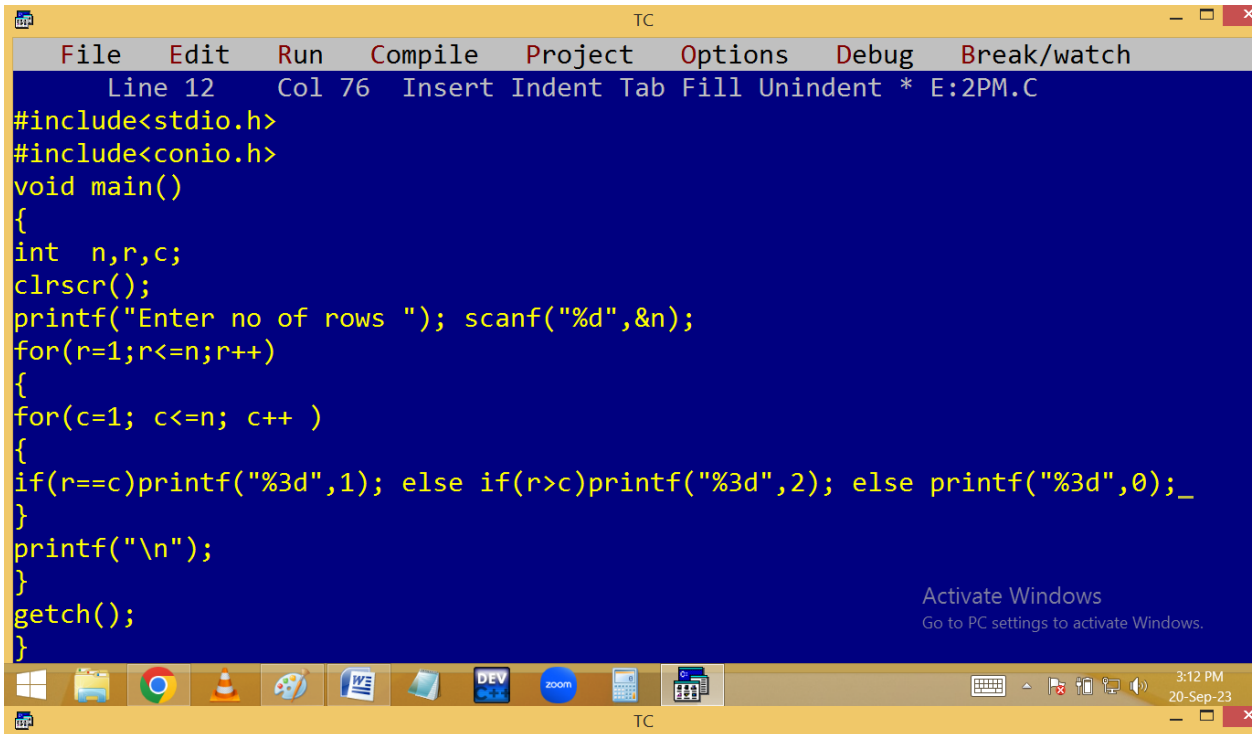
```
for( r=1; r<=4; r++)
{
for(c=1; c<=4; c++)
{
if(c<=n-r)p(1); else p(r);
}
p("\n");
}
```

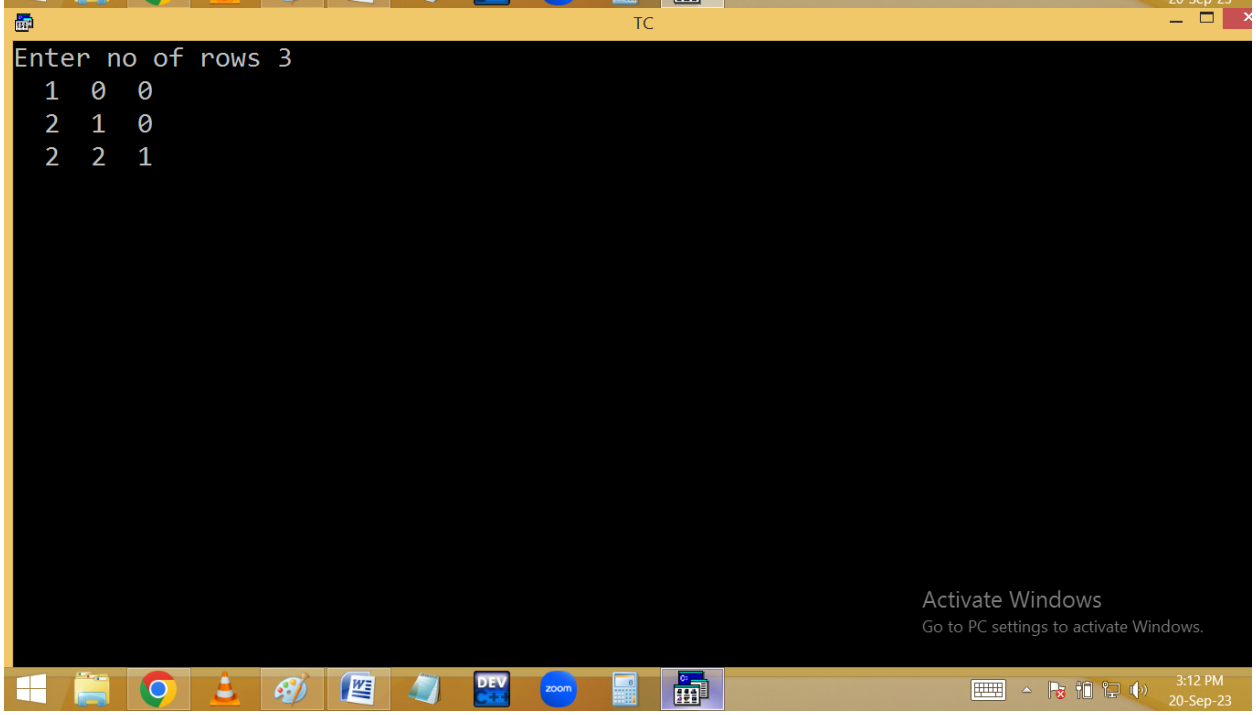
n	r	l	o
4	1	3	1
4	2	2	2
4	3	1	3
4	4	0	4

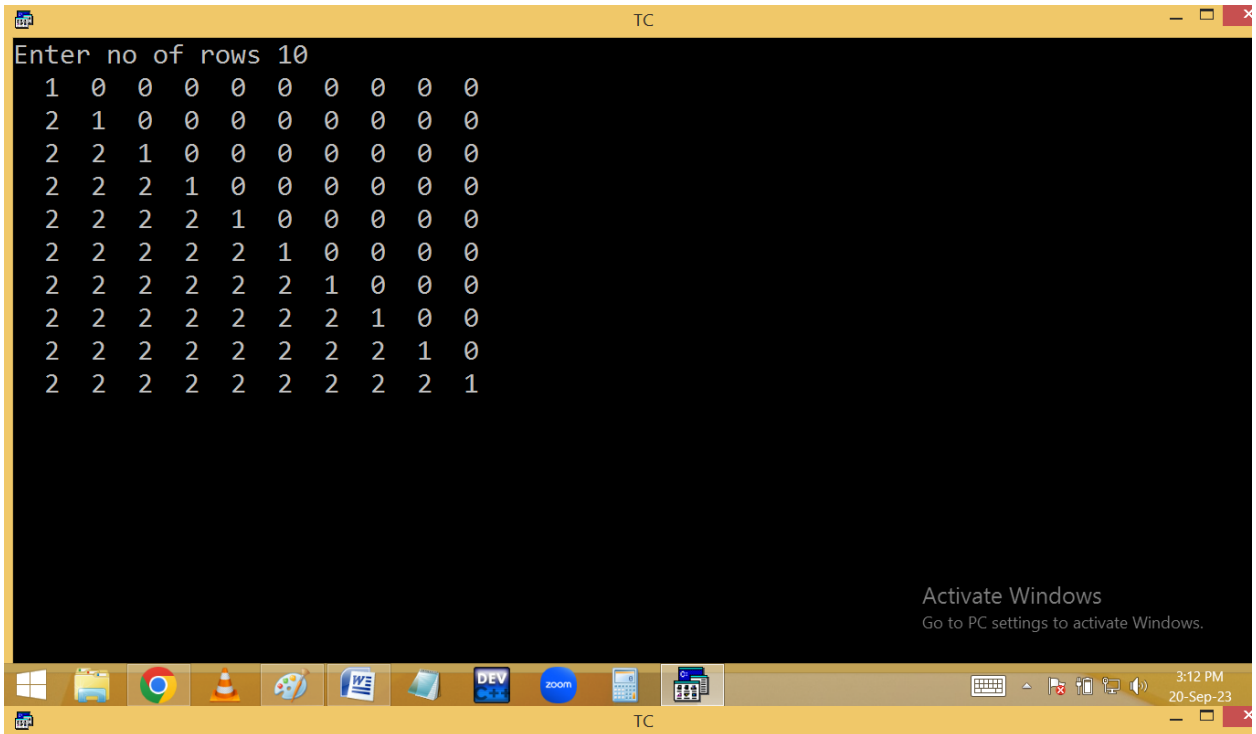
c <= n - r

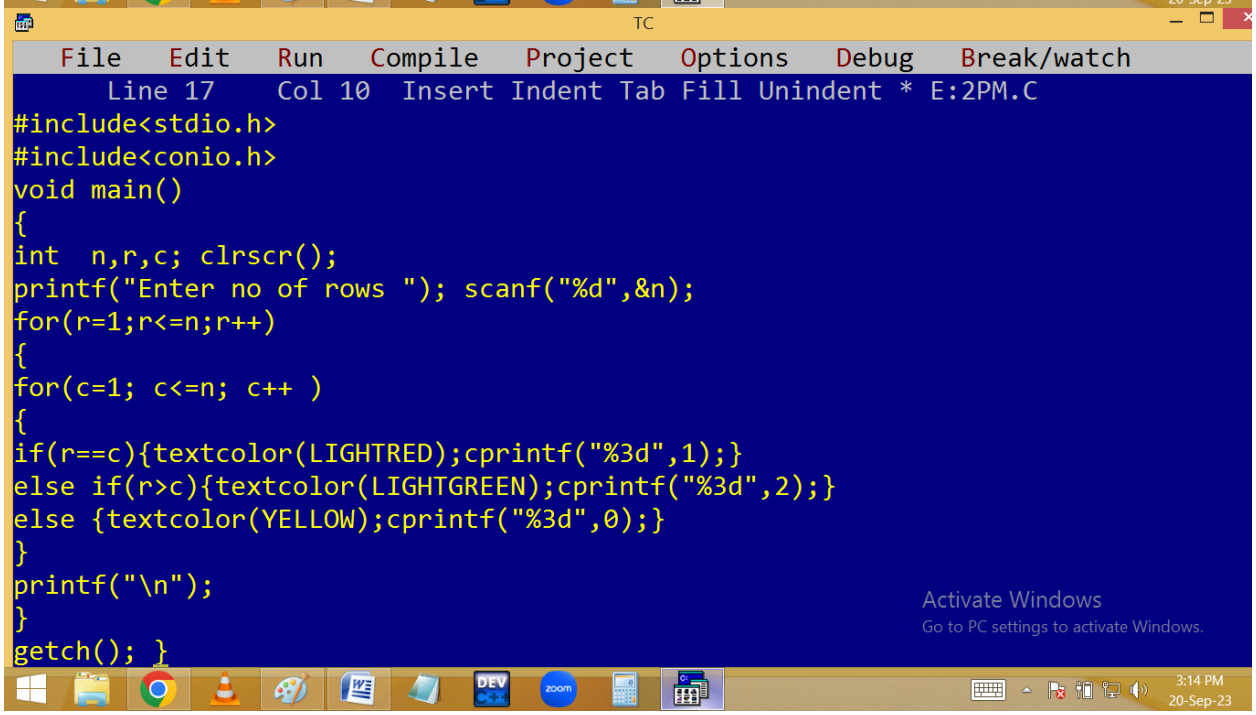
123 <= 4 - 1

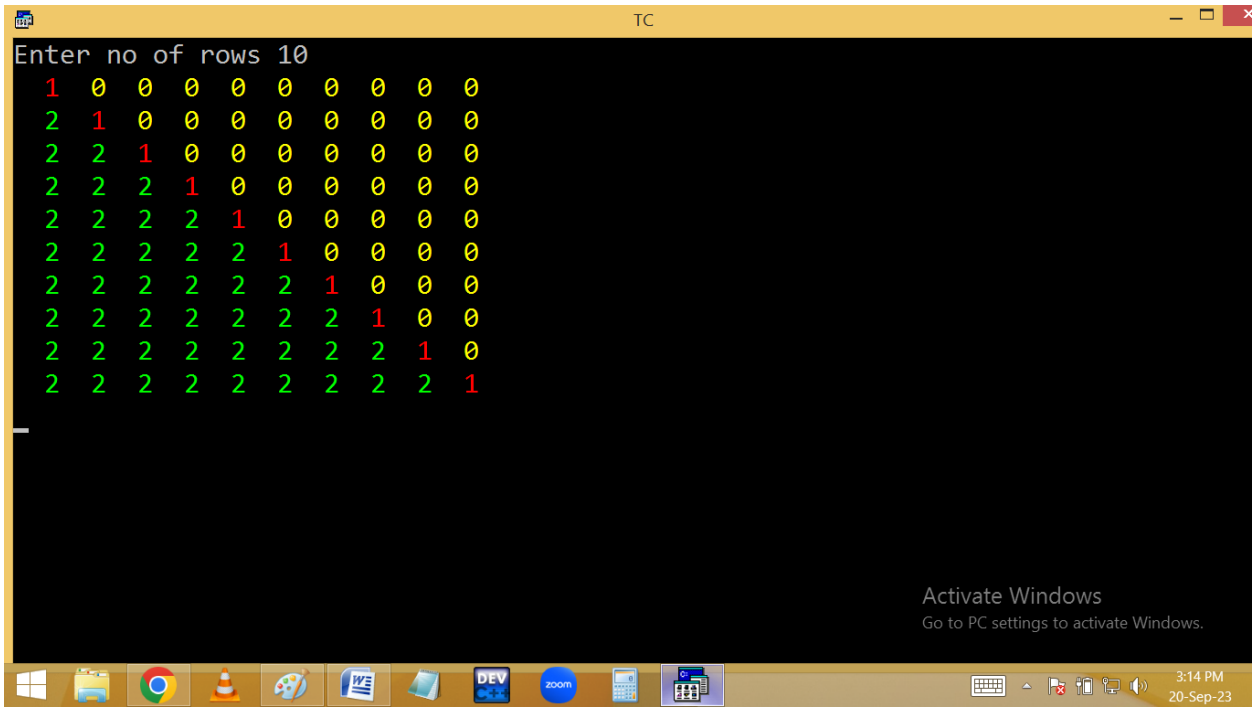



TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 76 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,r,c;
clrscr();
printf("Enter no of rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
{
for(c=1; c<=n; c++)
{
if(r==c)printf("%3d",1); else if(r>c)printf("%3d",2); else printf("%3d",0);
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
3:12 PM
20-Sep-23

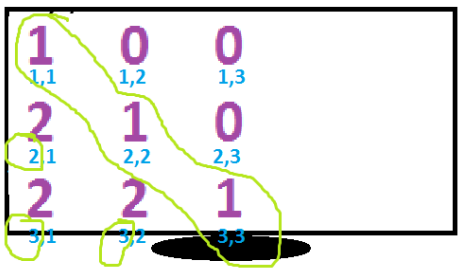

TC
Enter no of rows 3
1 0 0
2 1 0
2 2 1
Activate Windows
Go to PC settings to activate Windows.
3:12 PM
20-Sep-23

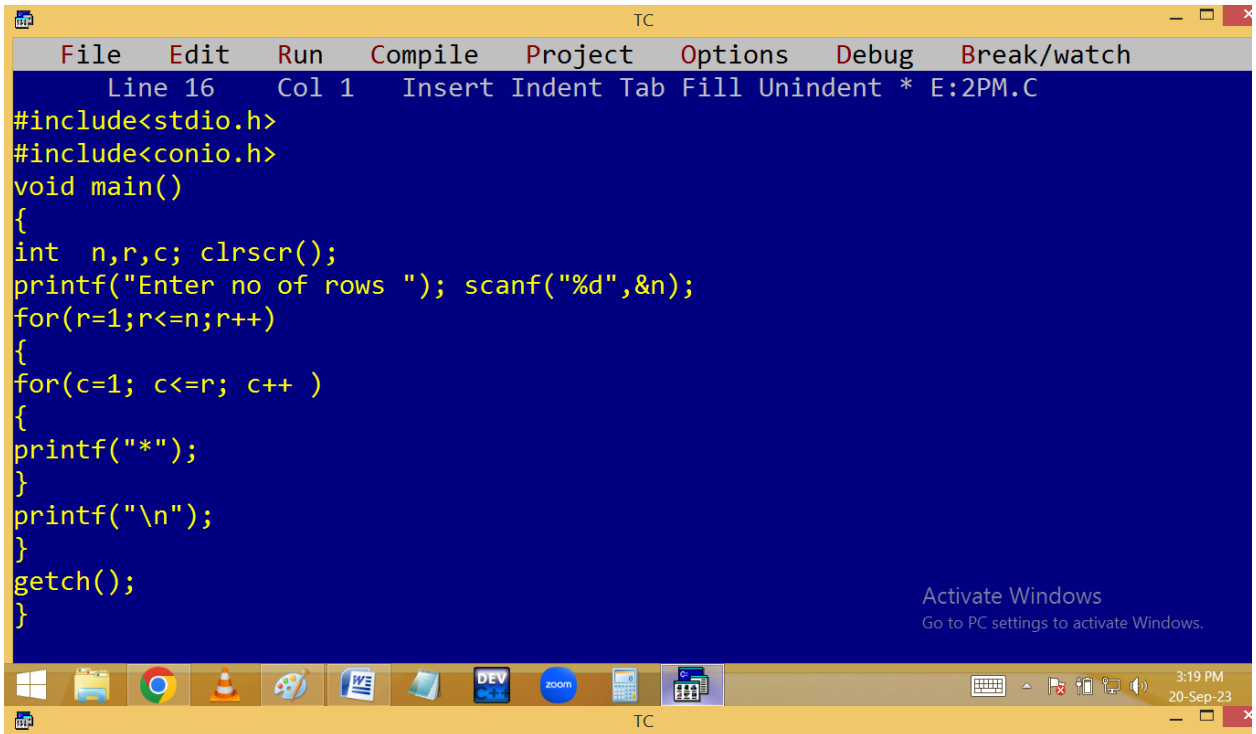

TC
Enter no of rows 10
1 0 0 0 0 0 0 0 0 0
2 1 0 0 0 0 0 0 0 0
2 2 1 0 0 0 0 0 0 0
2 2 2 1 0 0 0 0 0 0
2 2 2 2 1 0 0 0 0 0
2 2 2 2 2 1 0 0 0 0
2 2 2 2 2 2 1 0 0 0
2 2 2 2 2 2 2 1 0 0
2 2 2 2 2 2 2 2 1 0
2 2 2 2 2 2 2 2 2 1
Activate Windows
Go to PC settings to activate Windows.
3:12 PM
20-Sep-23

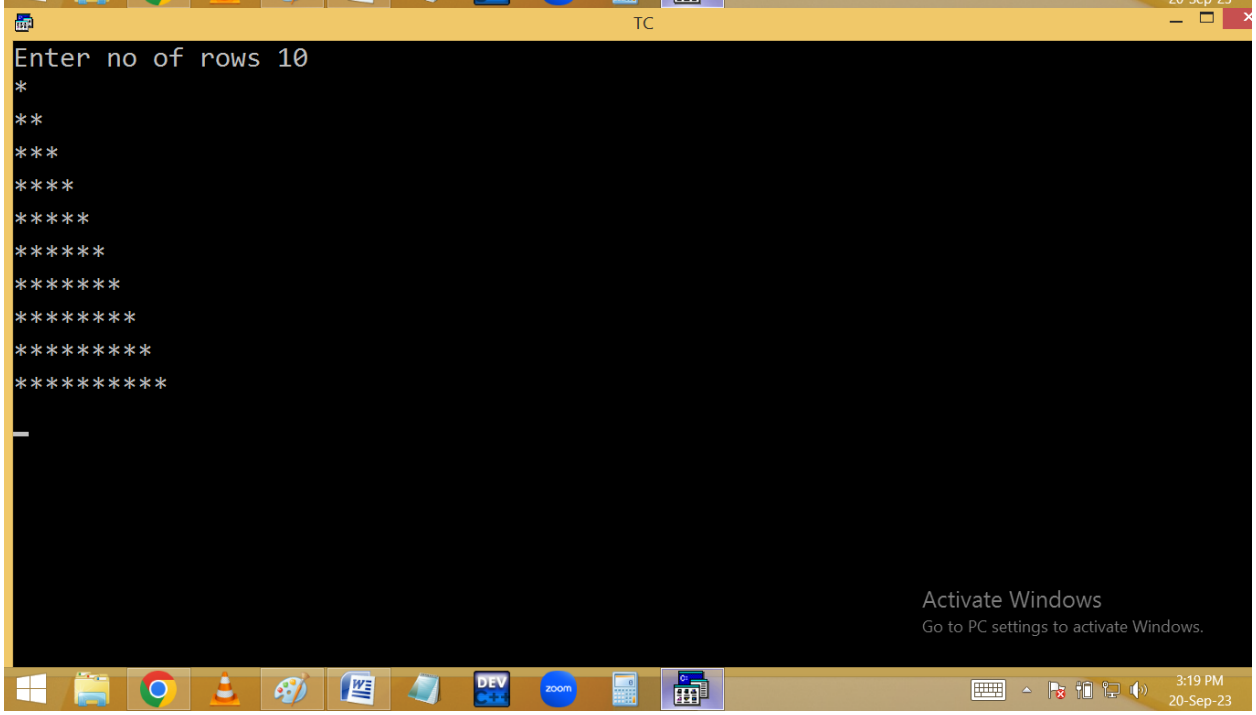

TC
File Edit Run Compile Project Options Debug Break/watch
Line 17 Col 10 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,r,c; clrscr();
printf("Enter no of rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
{
for(c=1; c<=n; c++)
{
if(r==c){textcolor(LIGHTRED);cprintf("%3d",1);}
else if(r>c){textcolor(LIGHTGREEN);cprintf("%3d",2);}
else {textcolor(YELLOW);cprintf("%3d",0);}
}
printf("\n");
}
getch(); }
Activate Windows
Go to PC settings to activate Windows.
3:14 PM
20-Sep-23



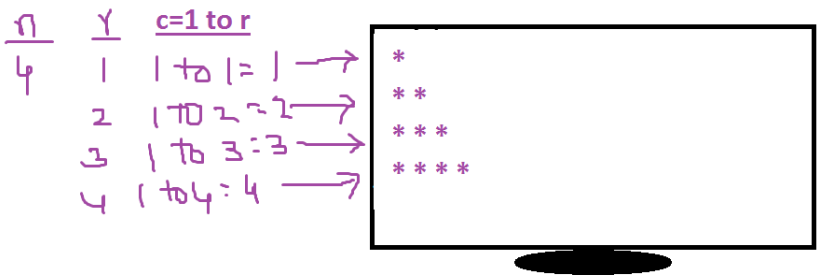

```
for( r=1; r<=4; r++)
{
for(c=1; c<=4; c++)
{
if(r==c)p(1); else if(r>c) p(2); else p(0);
}
p("\n");
}
```



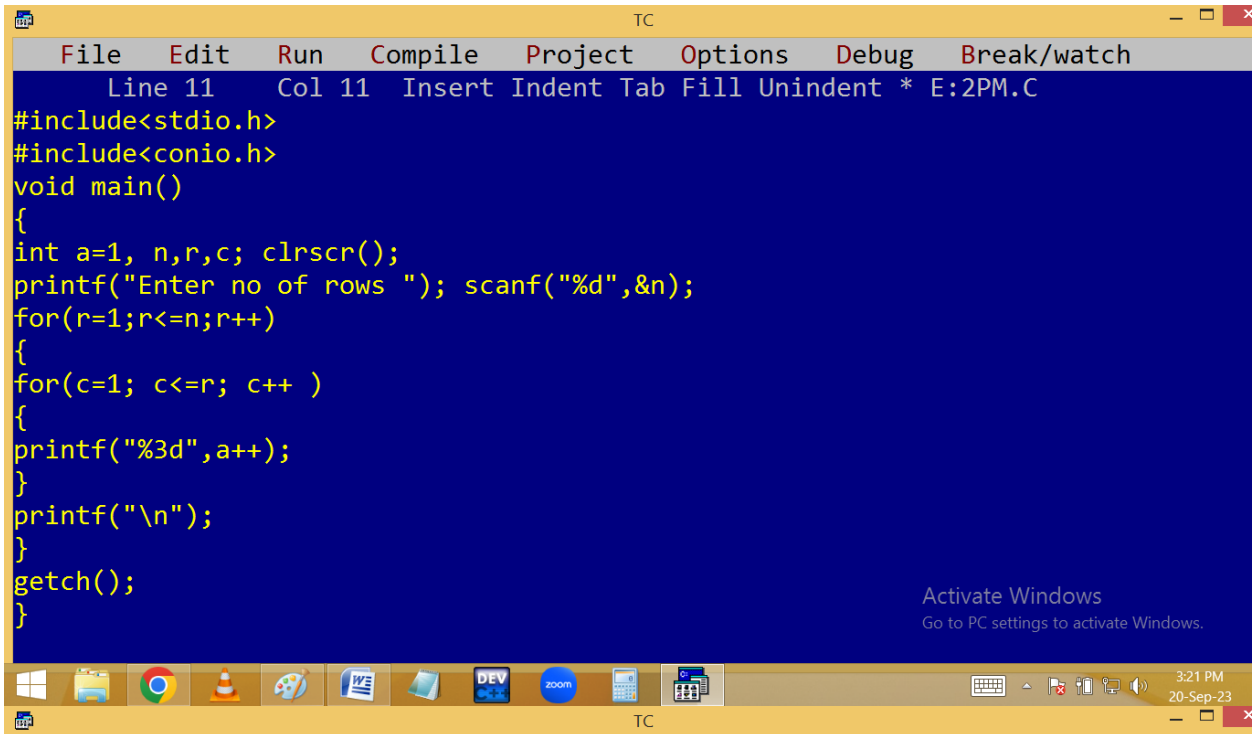

TC
File Edit Run Compile Project Options Debug Break/watch
Line 16 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,r,c; clrscr();
printf("Enter no of rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
{
for(c=1; c<=r; c++)
{
printf("*");
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
3:19 PM
20-Sep-23

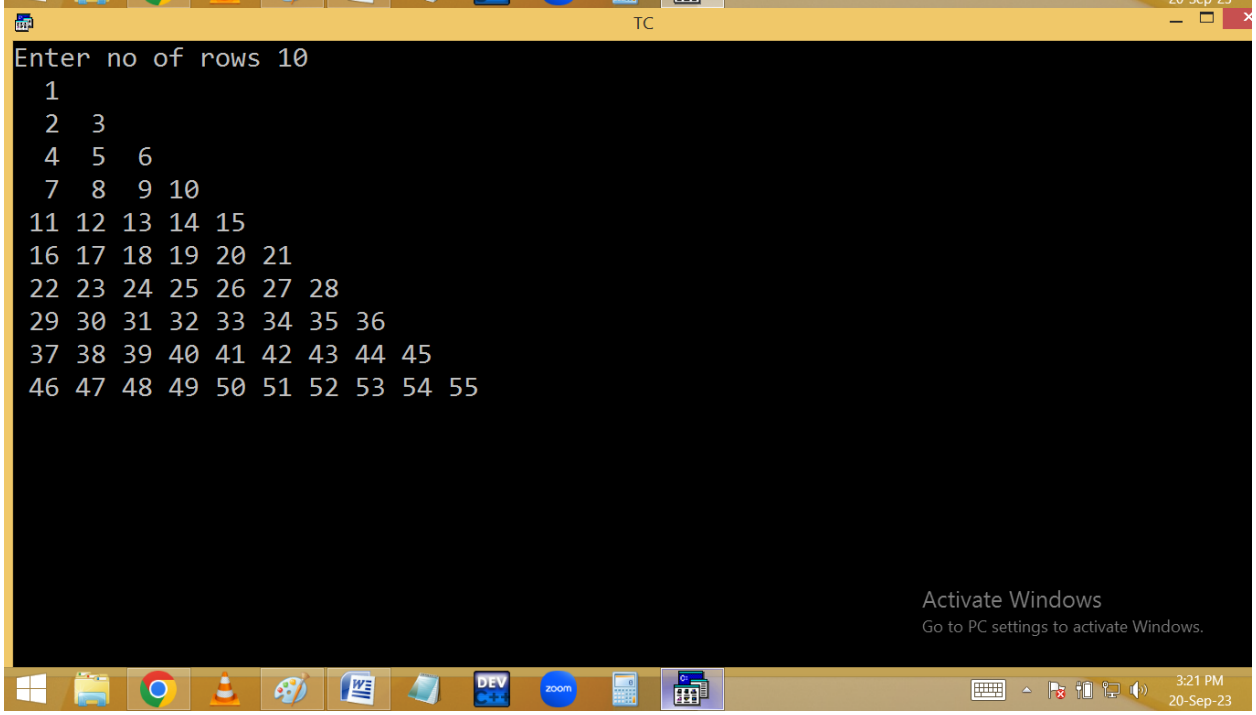

TC
Enter no of rows 10
*
**
***
****
*****
******
****
****
****
****
Activate Windows
Go to PC settings to activate Windows.
3:19 PM
20-Sep-23

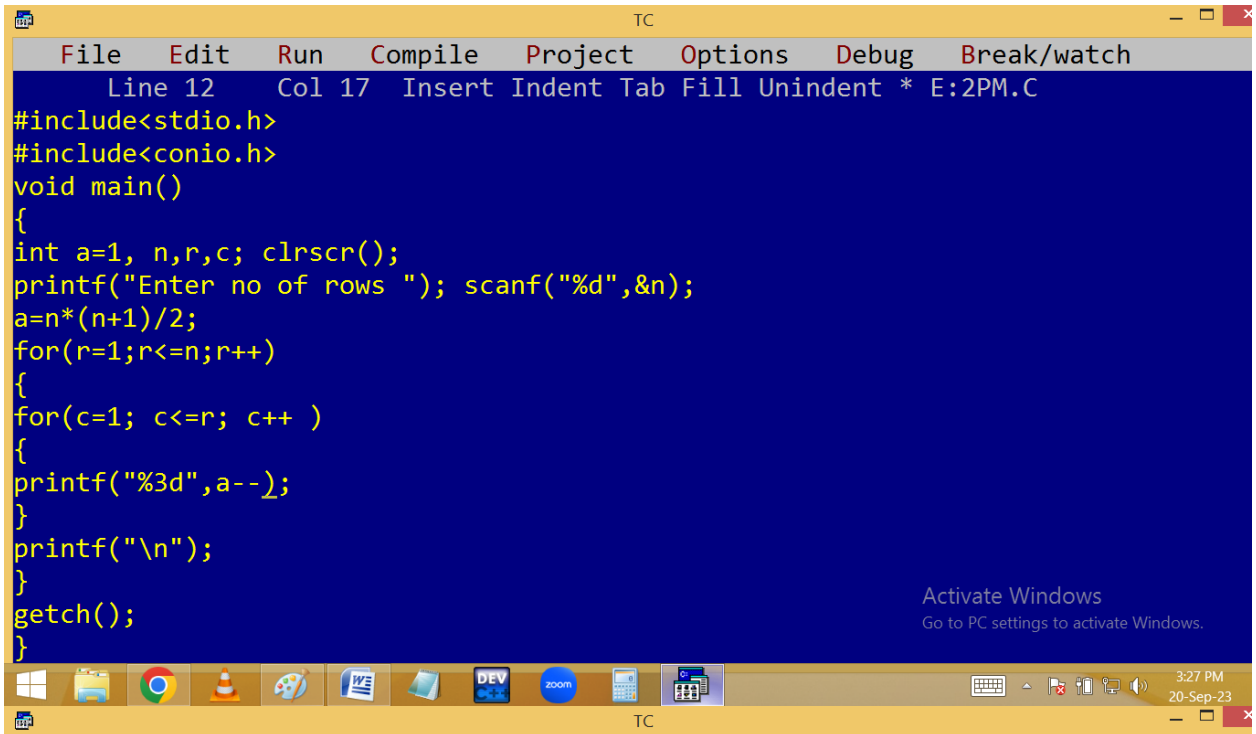
```
for(r=1;r<=4;r++)
{
for(c=1;c<=r;c++)
{
p("*");
}
p("\n");
}
```

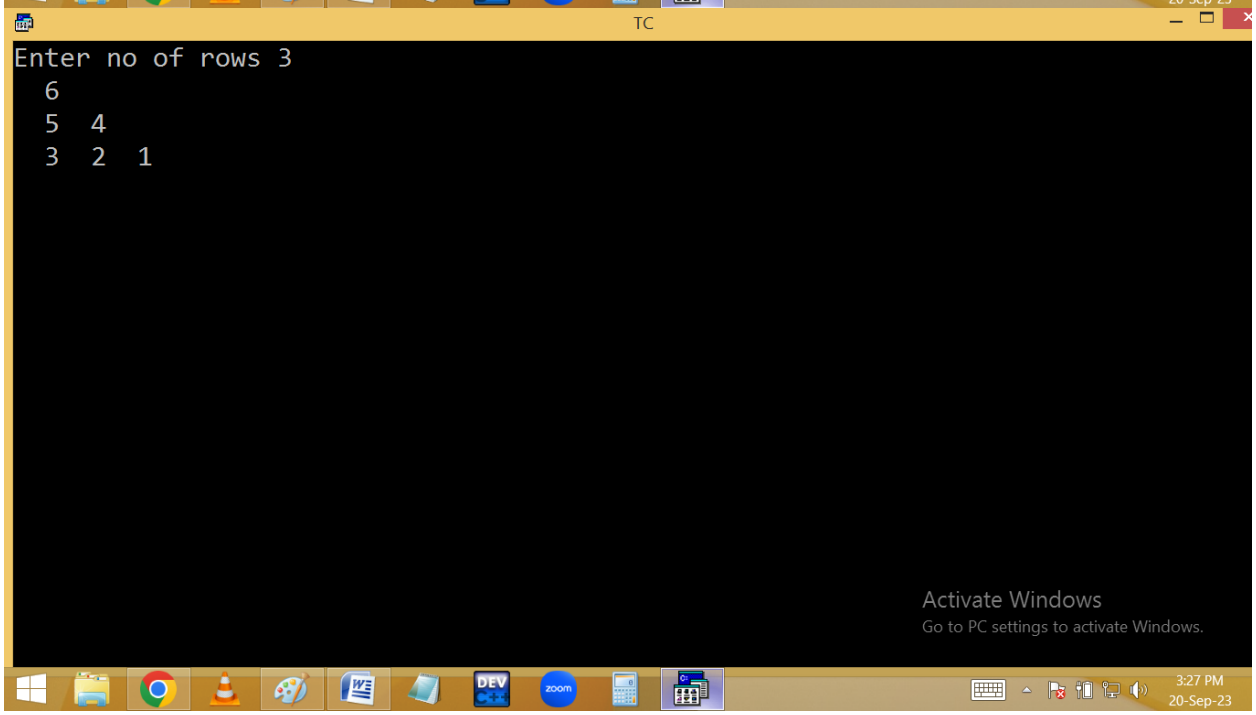


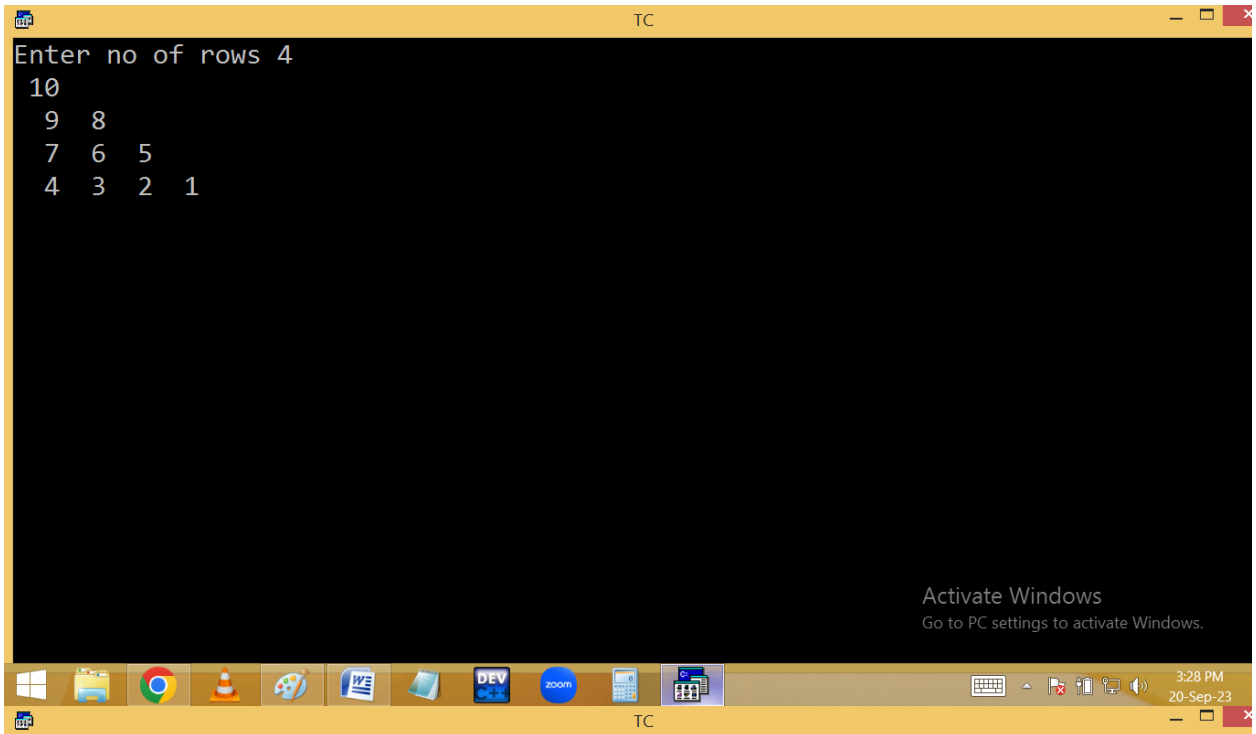
Floyd's Triangle:

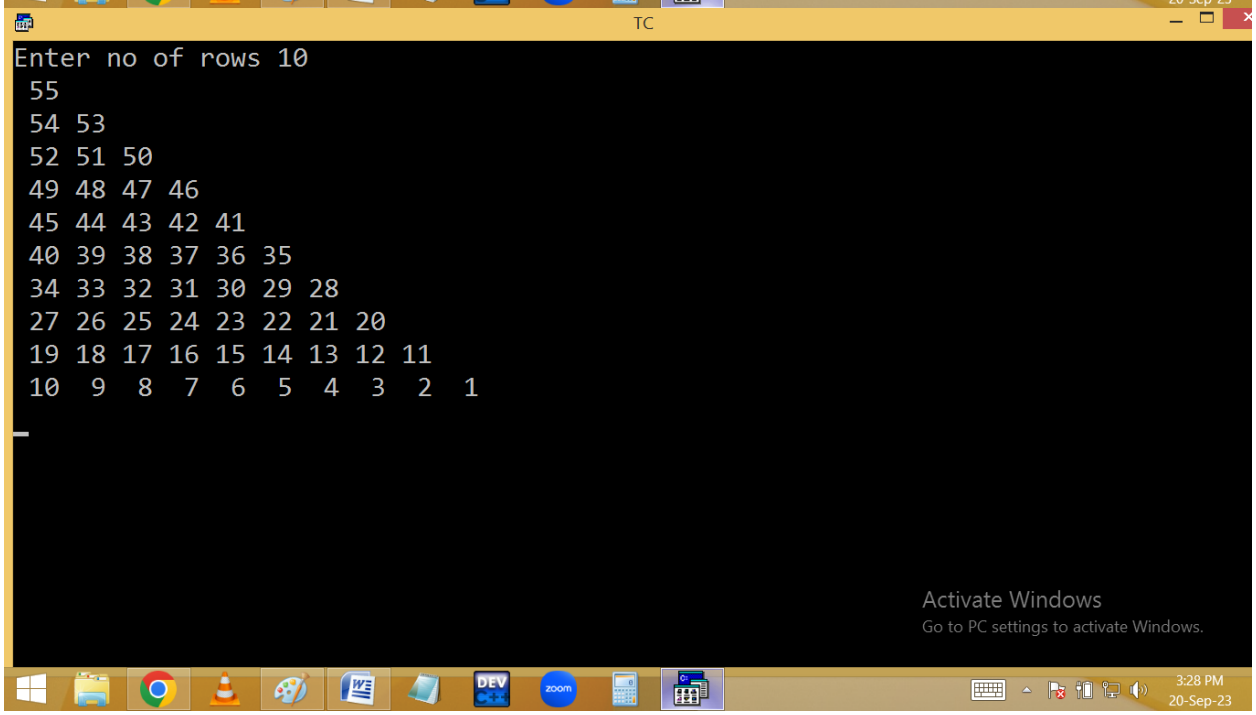

TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 11 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=1, n,r,c; clrscr();
printf("Enter no of rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
{
for(c=1; c<=r; c++)
{
printf("%3d",a++);
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
3:21 PM
20-Sep-23


TC
Enter no of rows 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
Activate Windows
Go to PC settings to activate Windows.
3:21 PM
20-Sep-23


TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 17 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=1, n,r,c; clrscr();
printf("Enter no of 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();
}
Activate Windows
Go to PC settings to activate Windows.
3:27 PM
20-Sep-23


TC
Enter no of rows 3
6
5 4
3 2 1
Activate Windows
Go to PC settings to activate Windows.
3:27 PM
20-Sep-23


TC
Enter no of rows 4
10
9 8
7 6 5
4 3 2 1
Activate Windows
Go to PC settings to activate Windows.
3:28 PM
20-Sep-23


TC
Enter no of 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
Activate Windows
Go to PC settings to activate Windows.
3:28 PM
20-Sep-23

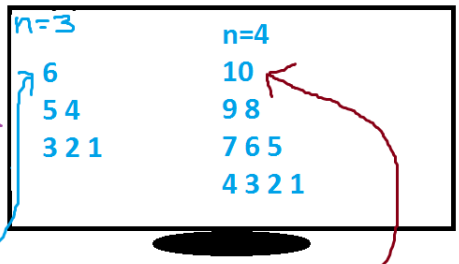
```
a=n*(n+1)/2;
for(r=1;r<=4;r++)
{
for(c=1;c<=r;c++)
{
p(a--);
}
p("\n");
}
```

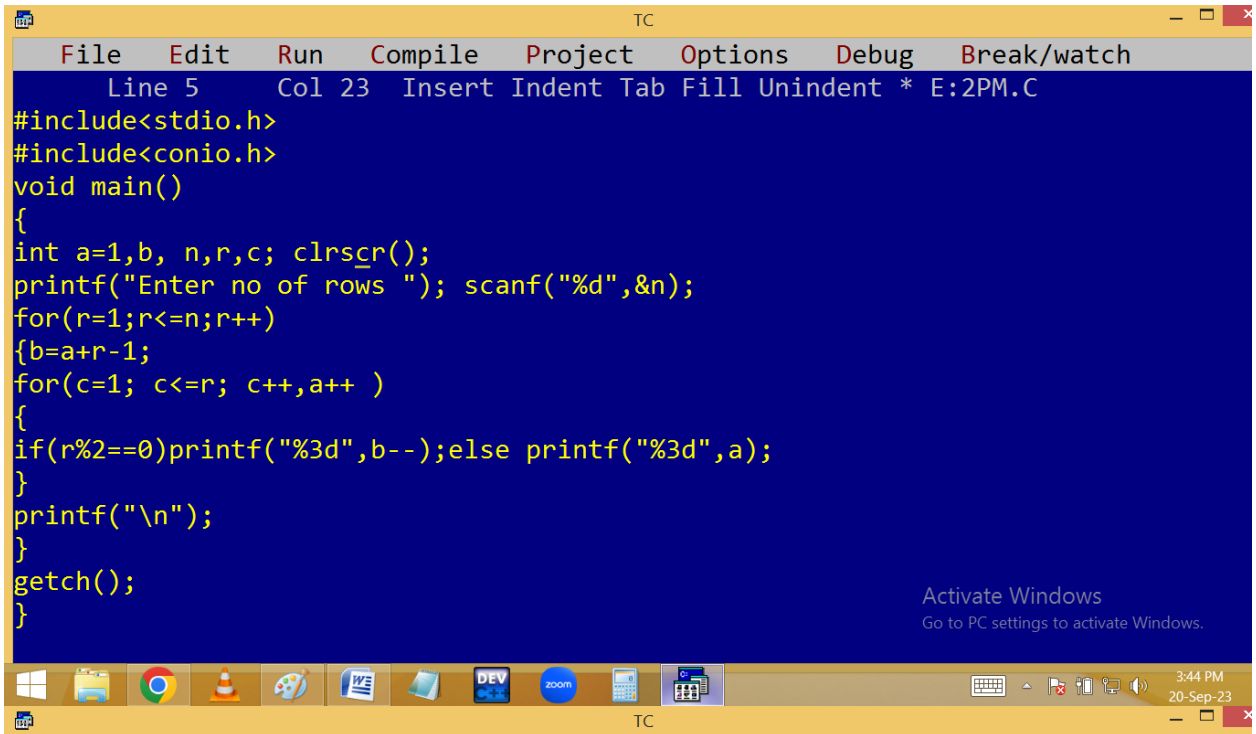
n r c=1 to r

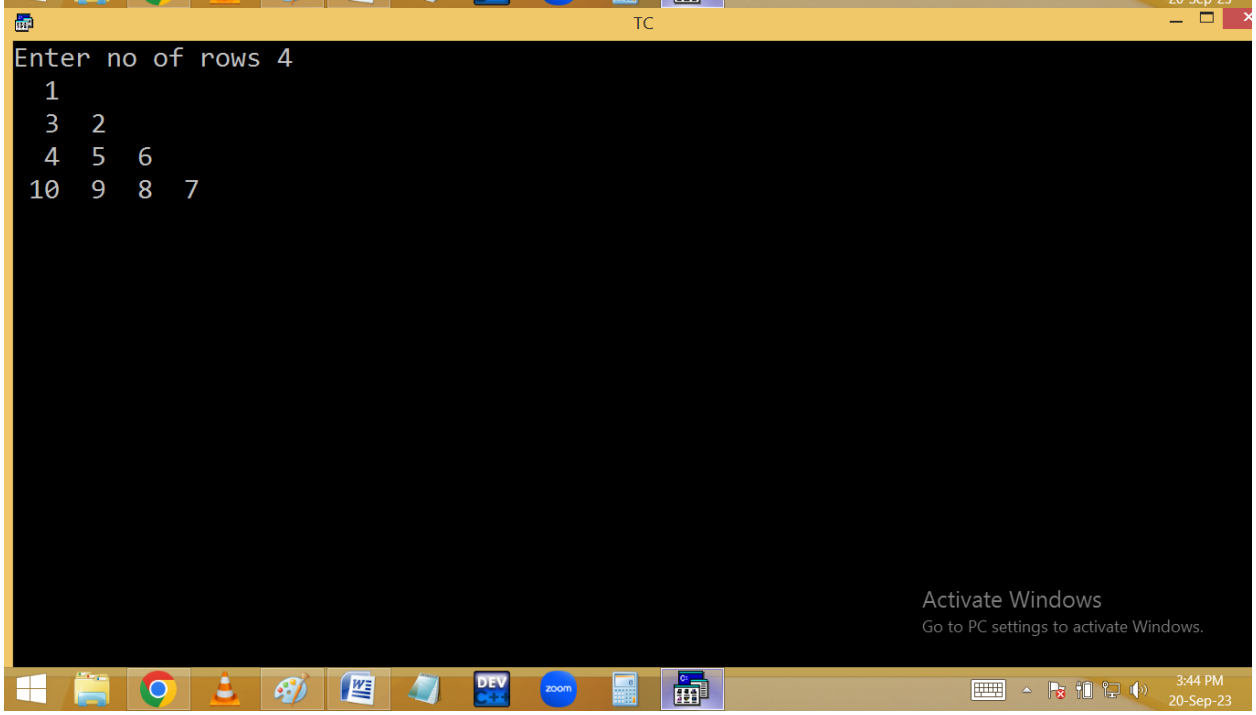
4 1 1 to 1 = 1 →
   2 1 to 2 = 2 →
   3 1 to 3 = 3 →
   4 1 to 4 = 4 →

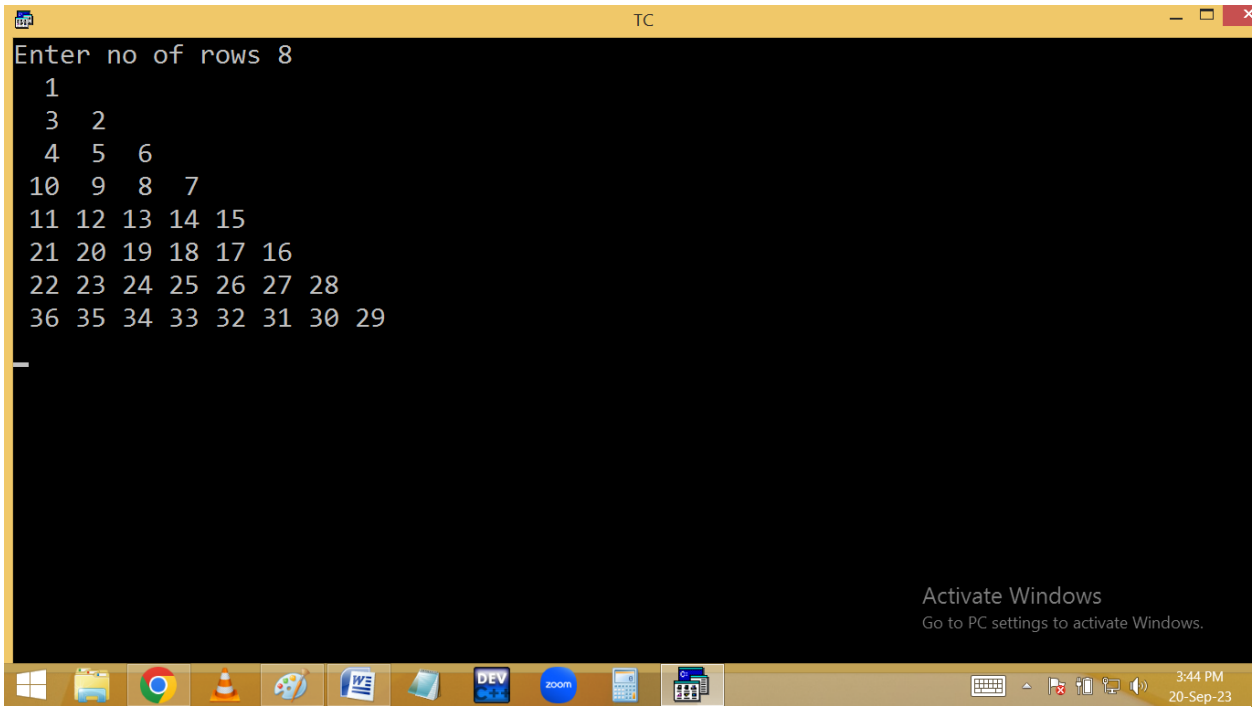
n=3
a= 3x4/2 = 6

n=4
a=4x5/2 = 10




TC
File Edit Run Compile Project Options Debug Break/watch
Line 5 Col 23 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=1,b, n,r,c; clrscr();
printf("Enter no of rows "); scanf("%d",&n);
for(r=1;r<=n;r++)
{b=a+r-1;
for(c=1; c<=r; c++,a++)
{
if(r%2==0)printf("%3d",b--);else printf("%3d",a);
}
printf("\n");
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
3:44 PM
20-Sep-23


TC
Enter no of rows 4
1
3 2
4 5 6
10 9 8 7
Activate Windows
Go to PC settings to activate Windows.
3:44 PM
20-Sep-23




```
for( r=1; r<=4; r++ )
{
b = a+r-1;
for( c=1; c<=r;c++,a++)
{
if(r%2==0)p(b--); else p(a);
}
p("\n");
}
```

b = 2 + 2 row - 1 = 3

b = 7+ 4 row - 1 = 10

```
1
2 4
3 5 7
6 8 10 12
```

```
*
* *
* A *
* B C *
* * * * *
```

```
$

*   $

$   *   $

*   $   *   $
```

```
1 2 3 4
1 2 3
1 2
1
```

```
4 3 2 1
3 2 1
2 1
1
```