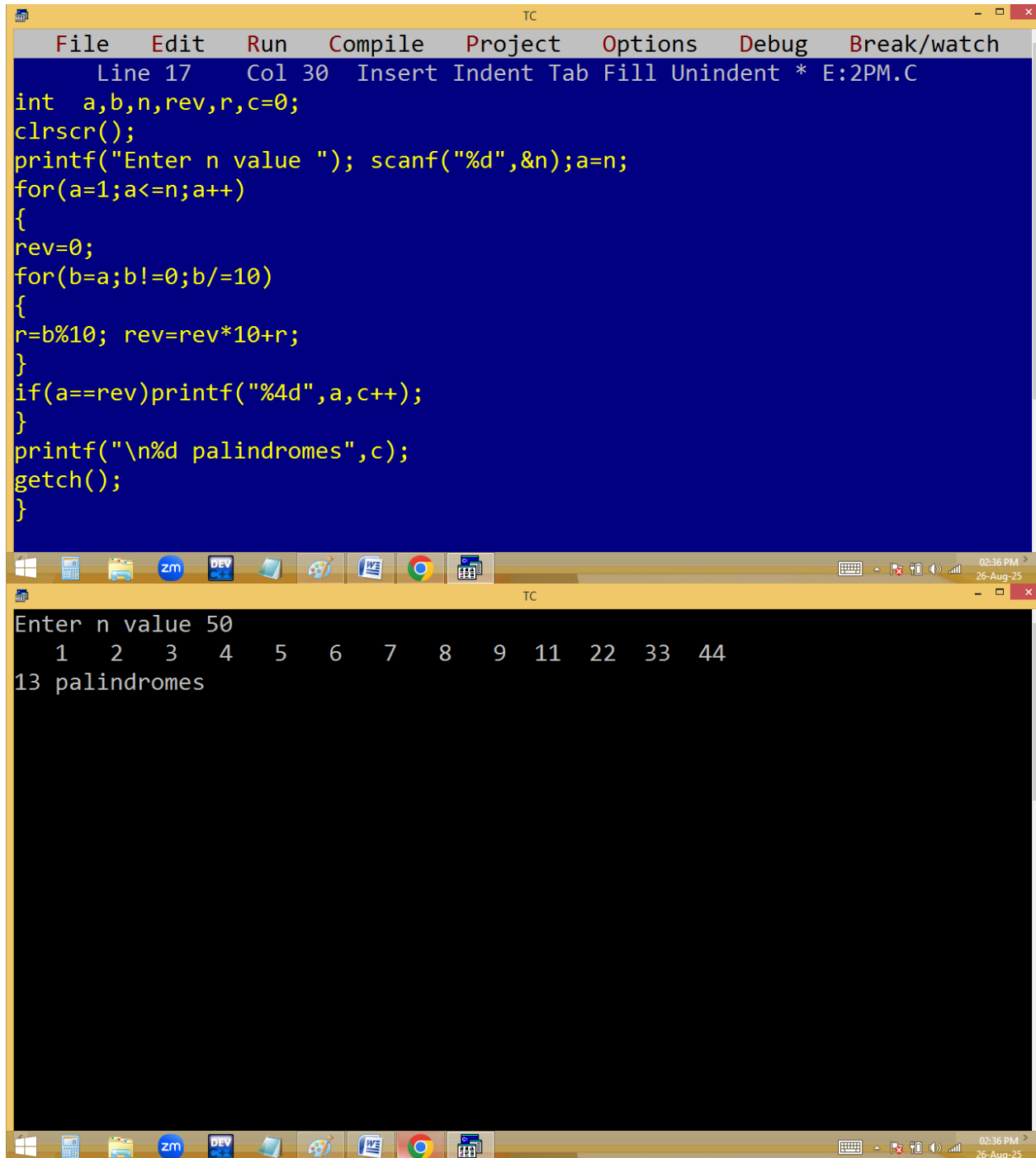


Printing 1..n palindrome no's and count?

n=50 → 1 to 9 11 22 33 44 – 13 palindromes



```
File Edit Run Compile Project Options Debug Break/watch
Line 17 Col 30 Insert Indent Tab Fill Unindent * E:2PM.C
int a,b,n,rev,r,c=0;
clrscr();
printf("Enter n value "); scanf("%d",&n);a=n;
for(a=1;a<=n;a++)
{
rev=0;
for(b=a;b!=0;b/=10)
{
r=b%10; rev=rev*10+r;
}
if(a==rev)printf("%4d",a,c++);
}
printf("\n%d palindromes",c);
getch();
}
```

Enter n value 50

1 2 3 4 5 6 7 8 9 11 22 33 44

13 palindromes

```

Enter n value 200
1 2 3 4 5 6 7 8 9 11 22 33 44 55 66 77 88 99 10
121 131 141 151 161 171 181 191
28 palindromes

```

```

50 ✓
for( a=1;a<=n;a++)
{
    rev=0;
    for(b=a; b!=0;b/=10)
    {
        int r=b%10;
        rev=rev*10+r;
    }
    if(a==rev)p(a);
}

```

✓

a	→	b	rev
11		11	1
		11 % 10 = 1	0 × 10 + 1 = 1
		1 % 10 = 1	1 × 10 + 1 = 11
		0	

1
2
3
4
5
6
7
8
9
10

Print 1..n prime and count.

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int  a,n,i,c,count=0;
clrscr();
printf("Enter n value "); scanf("%d",&n);
for(a=1;a<=n;a++)
{
for(c=0, i=1;i<=a;i++)
{
if(a%i==0)c++;
}
if(c==2)printf("%4d",a,count++);
}
printf("\n%d primes",count);
getch();
}
```

Enter n value 10
2 3 5 7
4 primes

TC

```
TC
Enter n value 100
 2  3  5  7 11 13 17 19 23 29 31 37 41 43 47 53 59 61
73 79 83 89 97
25 primes_
```

Print n to n primes and count?

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int  a,n,i,c,count=0; clrscr();
printf("Enter starting and ending values "); scanf("%d%d",&a,&n);
if(a>n){a=a+n; n=a-n; a=a-n;}
for( ;a<=n;a++)
{
for(c=0, i=1;i<=a;i++)
{
if(a%i==0)c++;
}
if(c==2)printf("%4d",a,count++);
}
printf("\n%d primes",count);
getch();
}
```

Enter starting and ending values 40 10
11 13 17 19 23 29 31 37
8 primes

Activate Windows
Go to PC settings to activate Windows.

```
TC
Enter starting and ending values 100 200
101 103 107 109 113 127 131 137 139 149 151 157 163 167 173 179 181 191 193
197 199
21 primes_
```

Finding Strong no or not?

Sum of factorial of every digit is equal to given no

Eg:

1 factorial is 1

2 factorial 2

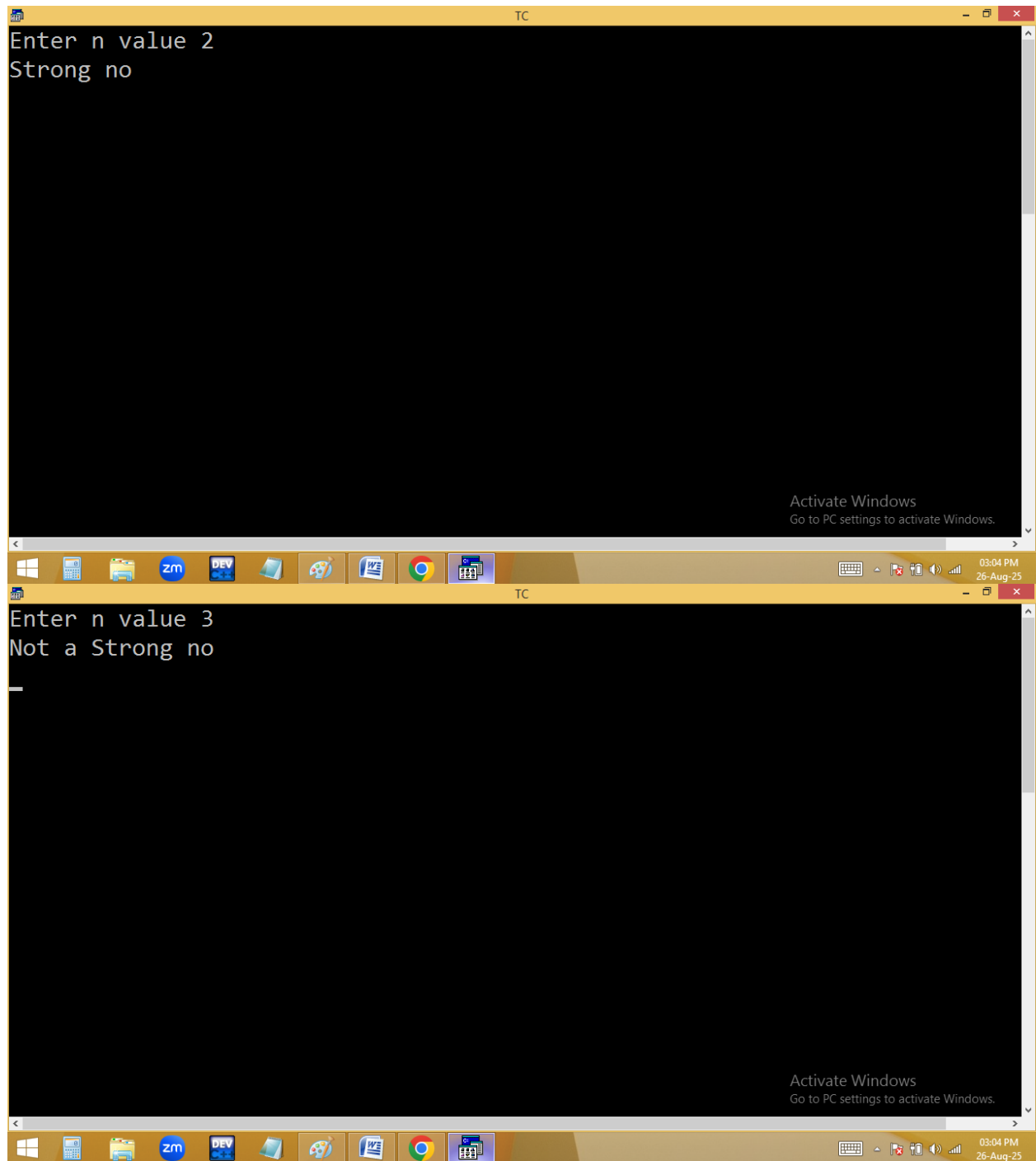
3 factorial 6

145 → $1! + 4! + 5! = 1 + 24 + 120 = 145$

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int n,m,r,f,s=0;
clrscr();
printf("Enter n value "); scanf("%d",&n);
for(m=n;m!=0;m/=10)
{
for(r=m%10,f=1;r>1;r--)
{
f=f*r;
}
s+=f;
}
puts(n==s?"Strong no":"Not a Strong no");
getch();
}
```

Enter n value 1
Strong no

Page: 7 of 7 | Words: 77

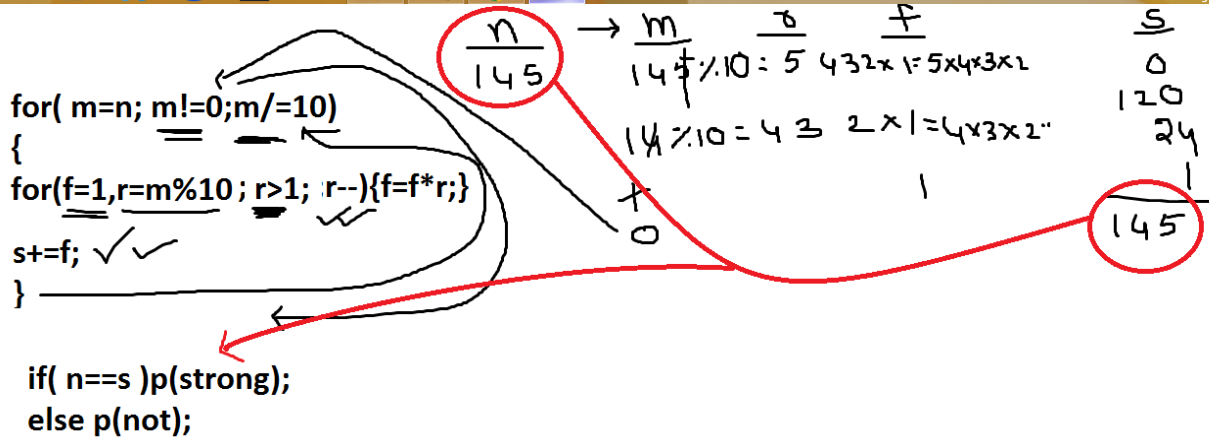



```

Enter n value 145
Strong no

```

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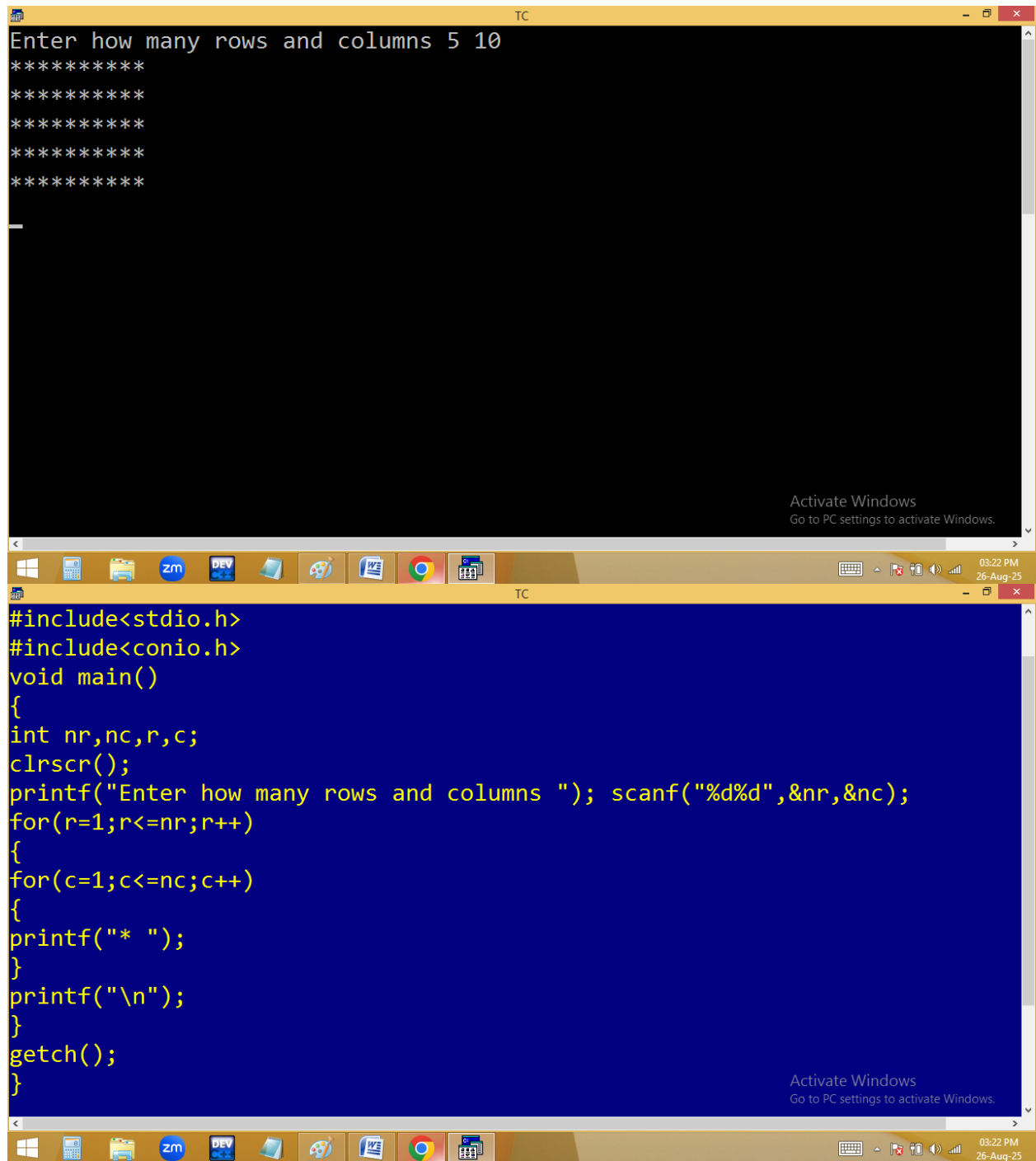


Patterns:

```
Line 17 Col 2 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++)
{
printf("*");
}
printf("\n");
}
getch();
}
```

Enter how many rows and columns 3 4

```
****
****
****
```



The image shows two overlapping Turbo C++ (TC) windows. The top window displays the execution of a program that prints a 5x10 grid of asterisks. The bottom window shows the source code of the program.

Top Window (Execution Output):

```
Enter how many rows and columns 5 10
*****
*****
*****
*****
*****
```

Bottom Window (Source Code):

```
#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++)
        {
            printf("* ");
        }
        printf("\n");
    }
    getch();
}
```

Both windows include a taskbar at the bottom with icons for Windows, Calculator, File Explorer, Zoom, DEV C++, and other applications. The system tray shows the time as 03:22 PM on 26-Aug-23. An "Activate Windows" watermark is visible in the bottom right corner of both windows.

The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays the output of a program, which is a 10x10 grid of asterisks. The prompt "Enter how many rows and columns 10 10" is visible at the top of the output window. The bottom window shows the source code of the program, which is a C program that reads the number of rows and columns from the user and prints a grid of asterisks. The code is as follows:

```
Line 17 Col 15 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++)
{
printf("%3d",c);
}
printf("\n");
}
getch();
}
```

The IDE interface includes a menu bar at the top with options like File, Edit, Compile, Run, and a toolbar below it. The status bar at the bottom shows the time as 03:23 PM and the date as 26-Aug-23. An "Activate Windows" watermark is visible in the bottom right corner of both windows.

```
TC
Enter how many rows and columns 6 8
1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8

Activate Windows
Go to PC settings to activate Windows.
```



```
TC
#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++)
{
printf("%3d",r);
}
printf("\n");
}
getch();
}
```

Enter how many rows and columns 6 6

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c,a=1;
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("%3d",--a);else printf("%3d",a++);
}
printf("\n");
}
getch();
}
```

Enter how many rows and columns 5
10

1	2	3	4	5	6	7	8	9	10
10	9	8	7	6	5	4	3	2	1
1	2	3	4	5	6	7	8	9	10
10	9	8	7	6	5	4	3	2	1
1	2	3	4	5	6	7	8	9	10

```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c,a;
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
{a=nc;
for(c=1;c<=nc;c++)
{
if(r%2==0)printf("%3d",a--);else printf("%3d",c);
}
printf("\n");
}
getch();
}
```

Enter how many rows and columns 7 7

```
1 2 3 4 5 6 7
7 6 5 4 3 2 1
1 2 3 4 5 6 7
7 6 5 4 3 2 1
1 2 3 4 5 6 7
7 6 5 4 3 2 1
1 2 3 4 5 6 7
```



```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c,a;
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
{a=r;
for(c=1;c<=nc;c++)
{
printf("%3d",a++);
}
printf("\n");
}
getch();
}
```

Enter how many rows and columns 3 5

```
1 2 3 4 5
2 3 4 5 6
3 4 5 6 7
```

Activate Windows
Go to PC settings to activate Windows.


```
#include<stdio.h>
#include<conio.h>
void main()
{
int nr,nc,r,c,a;
clrscr();
printf("Enter how many rows and columns "); scanf("%d%d",&nr,&nc);
for(r=1;r<=nr;r++)
{a=r;
for(c=1;c<=nc;c++)
{
printf("%2c",96+c);
}
printf("\n");
}
getch();
}
```

[illegible]

