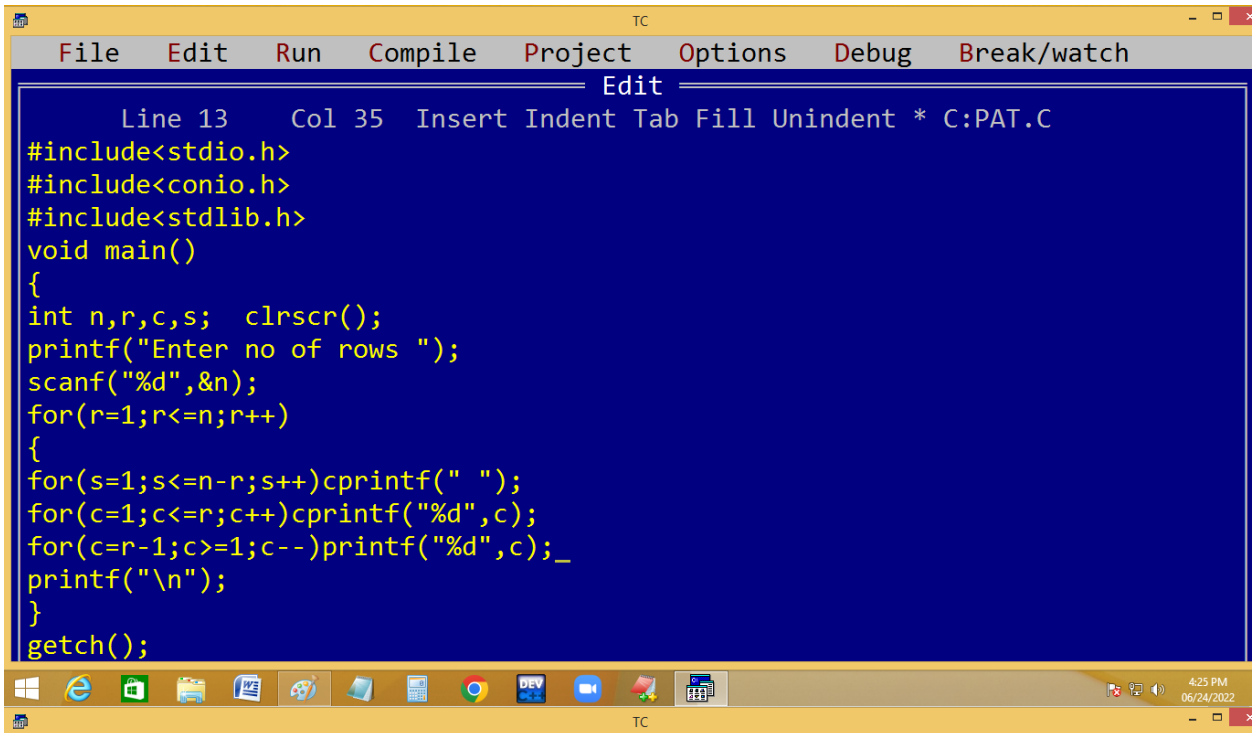
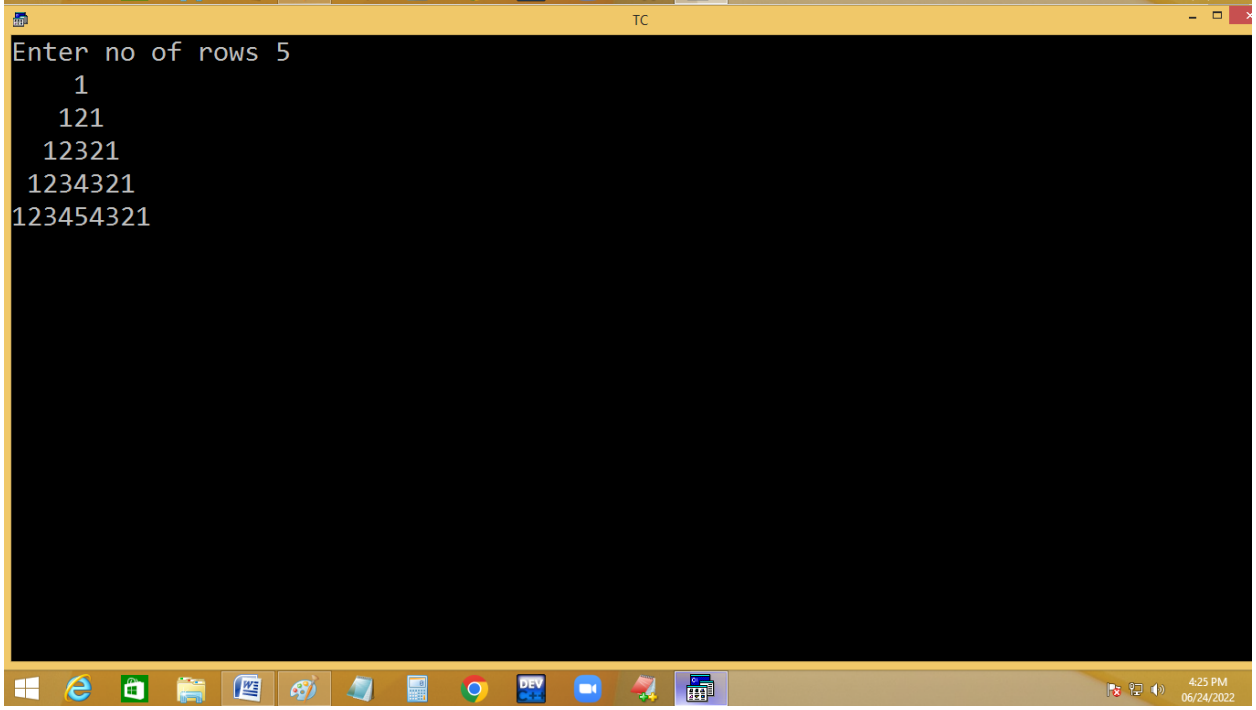
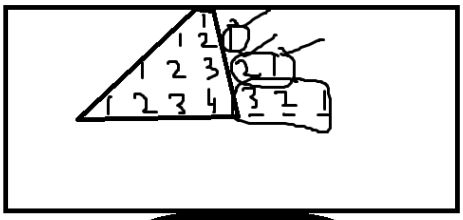

TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 13 Col 35 Insert Indent Tab Fill Unindent * C:PAT.C
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
{
int n,r,c,s; clrscr();
printf("Enter no of rows ");
scanf("%d",&n);
for(r=1;r<=n;r++)
{
for(s=1;s<=n-r;s++)cprintf(" ");
for(c=1;c<=r;c++)cprintf("%d",c);
for(c=r-1;c>=1;c--)printf("%d",c);_
printf("\n");
}
getch();


TC
Enter no of rows 5
1
121
12321
1234321
123454321

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



n = 4

r: 1, 2, 3, 4

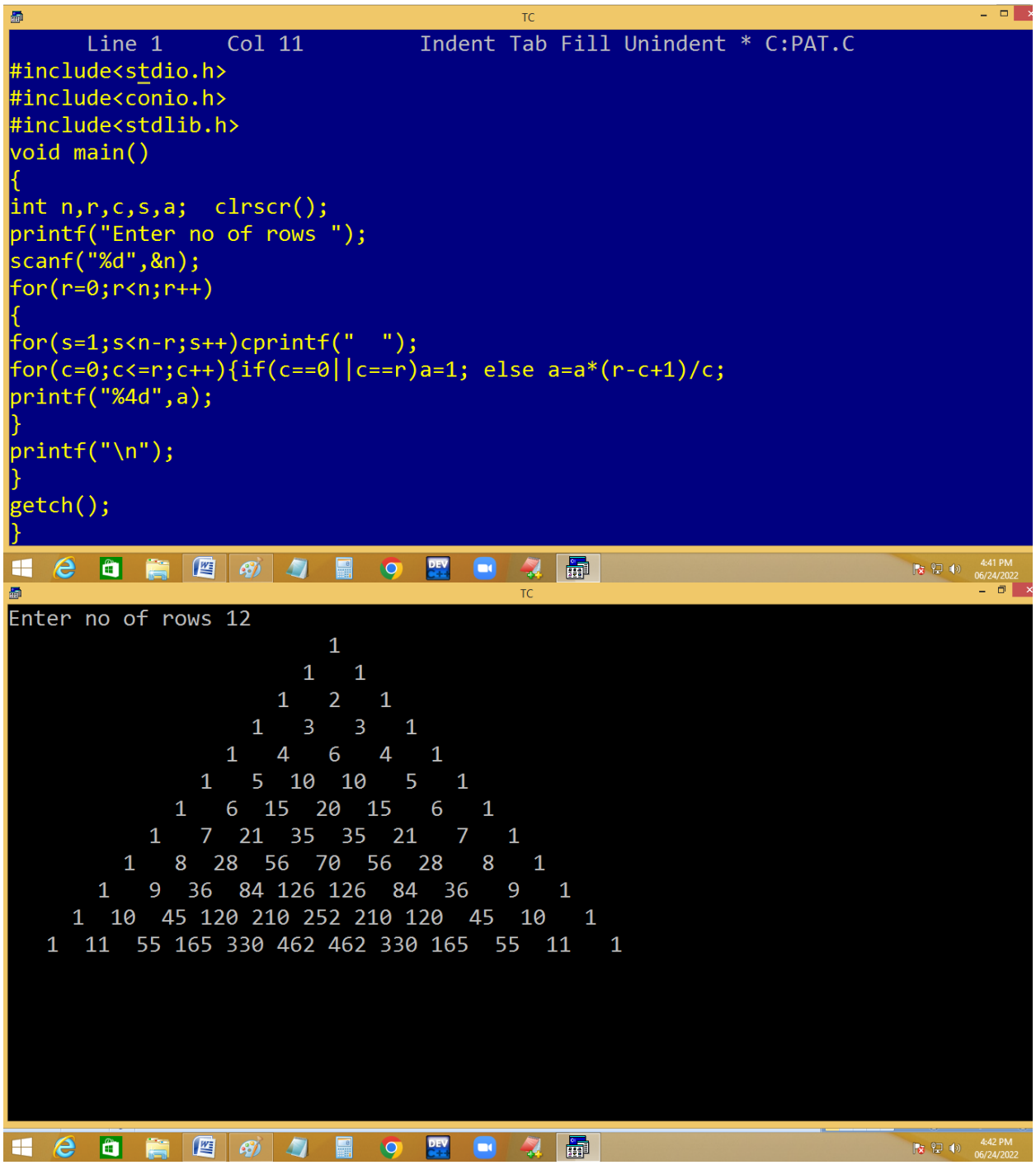
s = 3

c = 1 to r

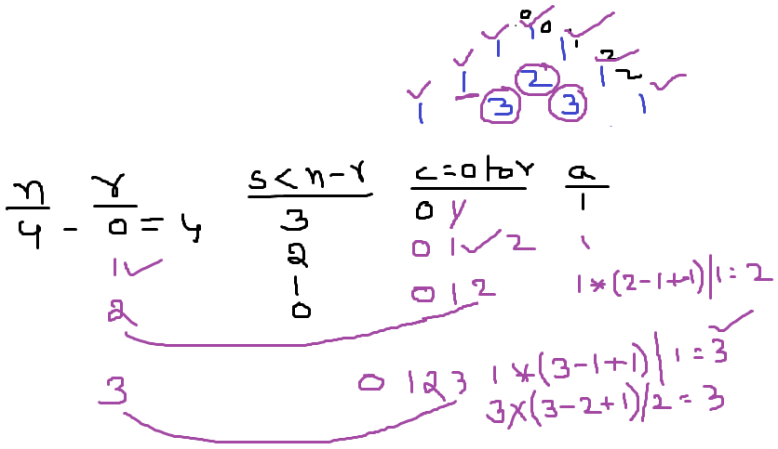
1 to 1
1 to 2
1 to 3
1 to 4

c = r-1

1-1 = 0
2-1 = 1
3-1 = 2
4-1 = 3

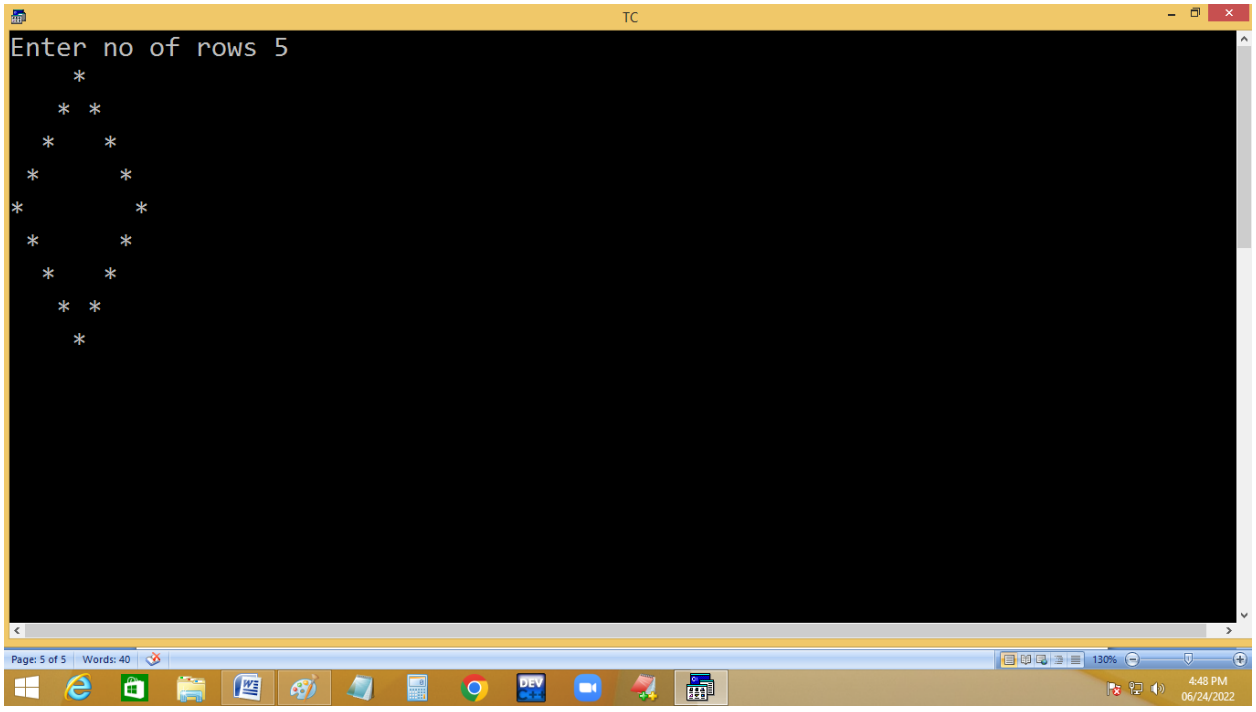

TC
Line 1 Col 11 Indent Tab Fill Unindent * C:PAT.C
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
{
int n,r,c,s,a; clrscr();
printf("Enter no of rows ");
scanf("%d",&n);
for(r=0;r<n;r++)
{
for(s=1;s<n-r;s++)cprintf(" ");
for(c=0;c<=r;c++){if(c==0||c==r)a=1; else a=a*(r-c+1)/c;
printf("%4d",a);
}
printf("\n");
}
getch();
}
4:41 PM
06/24/2022
TC
Enter no of rows 12
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
1 6 15 20 15 6 1
1 7 21 35 35 21 7 1
1 8 28 56 70 56 28 8 1
1 9 36 84 126 126 84 36 9 1
1 10 45 120 210 252 210 120 45 10 1
1 11 55 165 330 462 462 330 165 55 11 1
4:42 PM
06/24/2022

```
for(r=0; r<n;r++)
{
for(s=1;s<n-r;s++)p(" ");
 for(c=0;c<=r;c++)
 {
 if(c==0||c==r) a=1;
else a=a*(r-c+1)/c;
 p(a);
 }
 p("\n");
 }
```

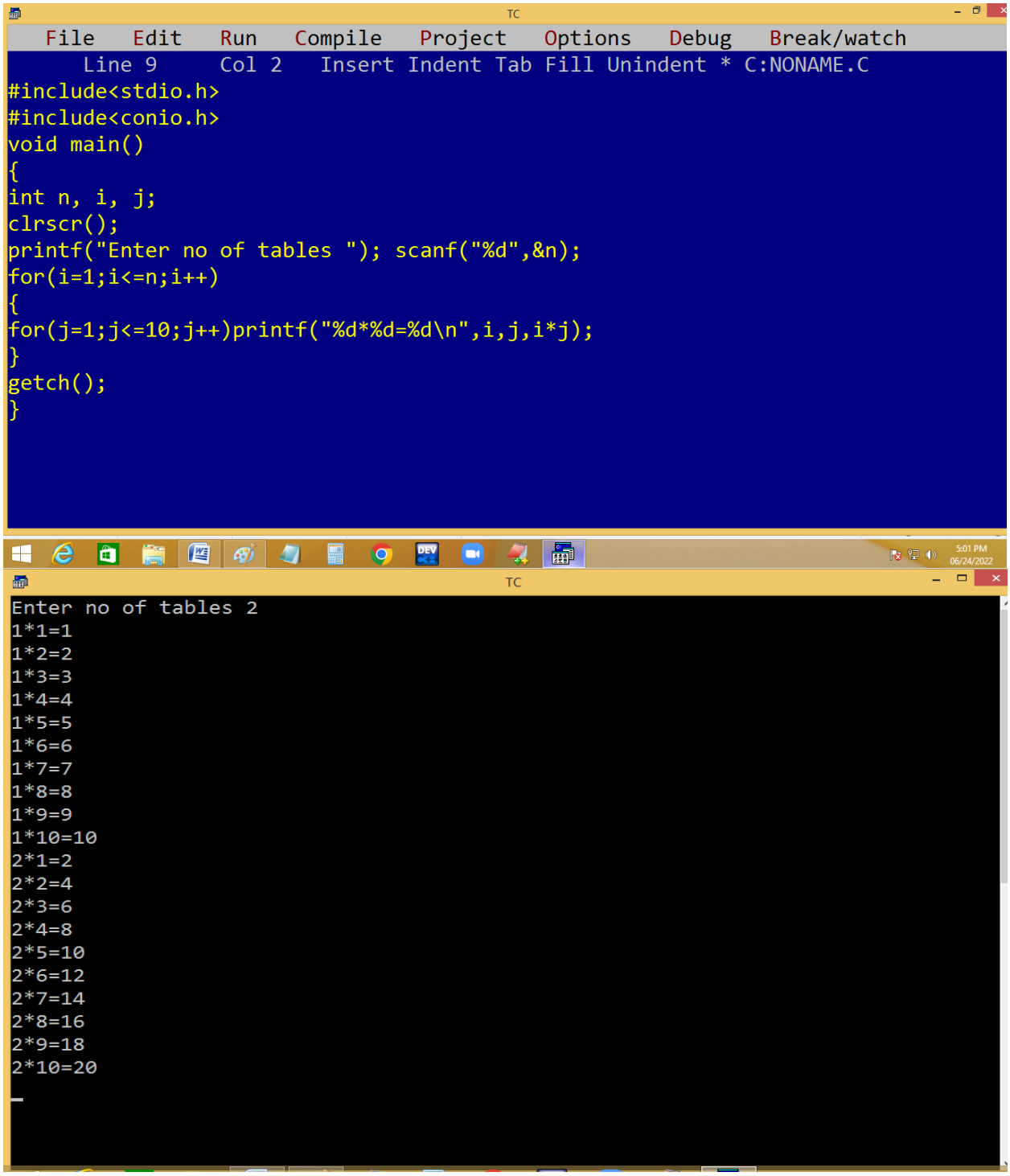


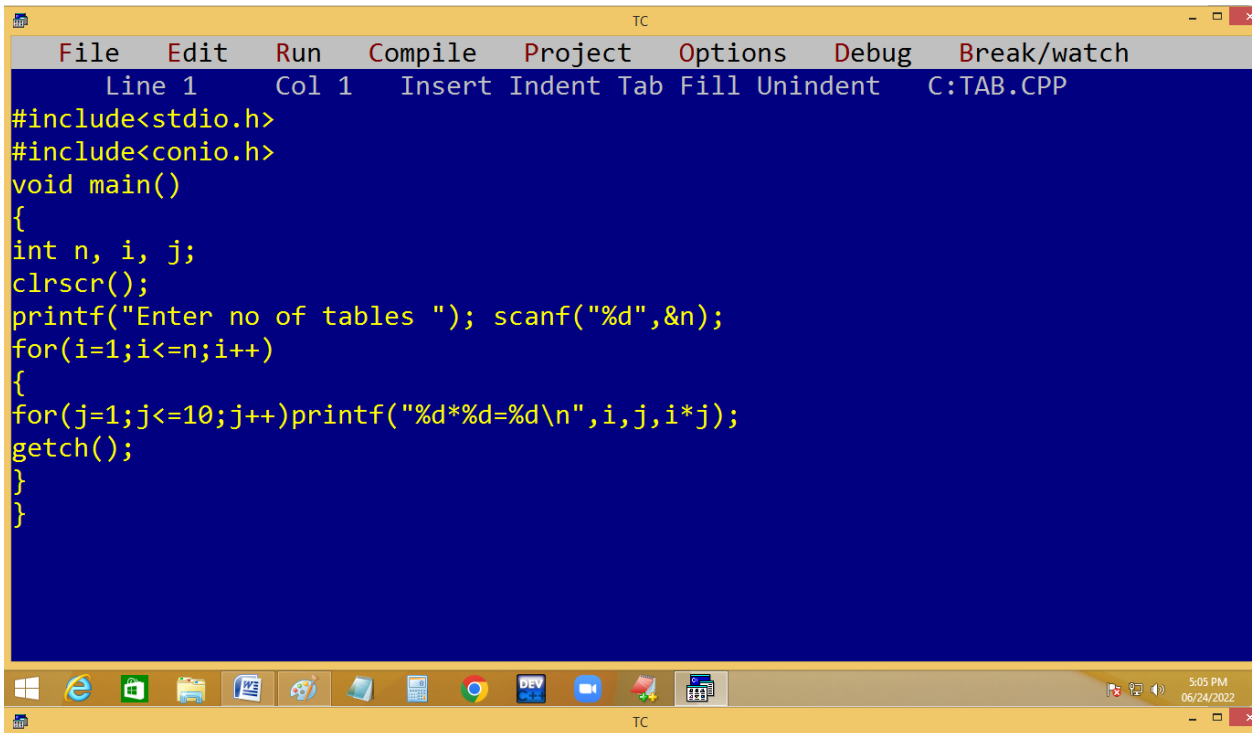
```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
{
int n,r,c,s;  clrscr();
printf("Enter no of rows ");
scanf("%d",&n);
for(r=1;r<=n;r++)
{
for(s=1;s<=n-r;s++)cprintf(" ");
for(c=1;c<=r;c++)if(c==1||c==r)printf("* "); else printf("  ");
printf("\n");
```

```
}
for(r=n-1;r>=1;r--)
{
for(s=1;s<=n-r;s++)cprintf(" ");
for(c=1;c<=r;c++)if(c==1||c==r)printf("* "); else printf("  ");
printf("\n");
}
getch();
}
```

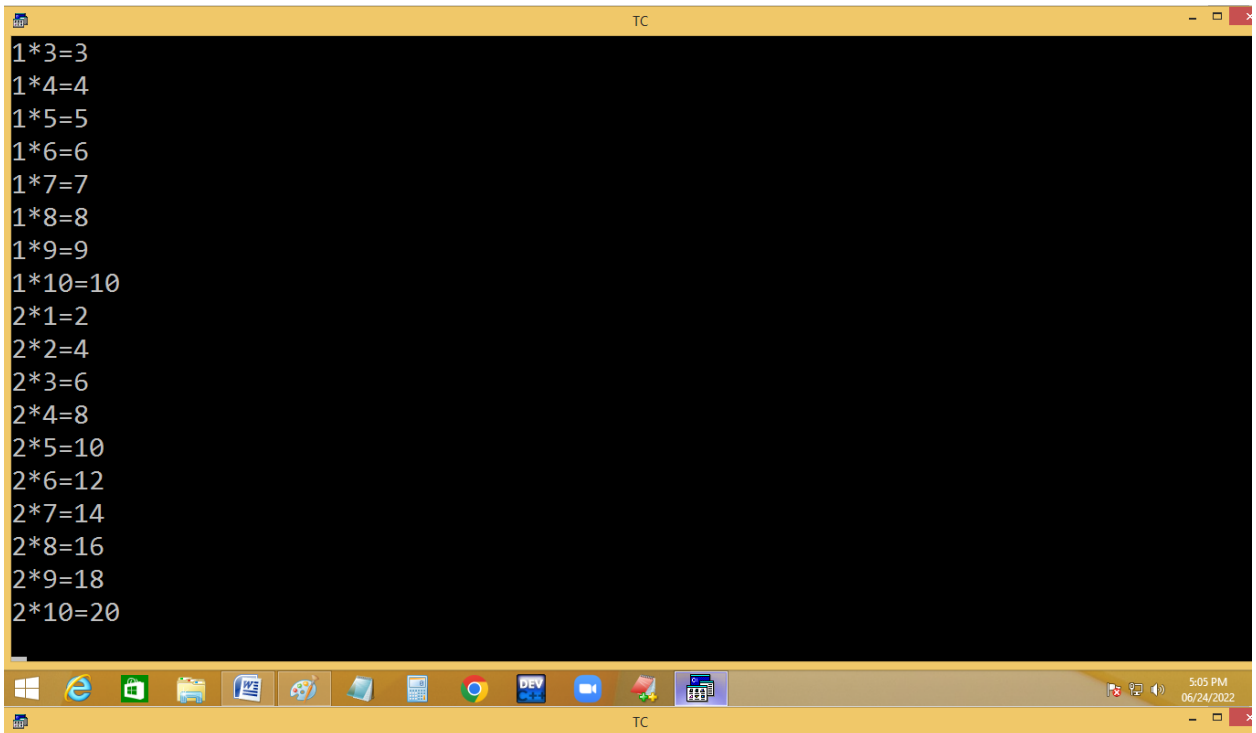


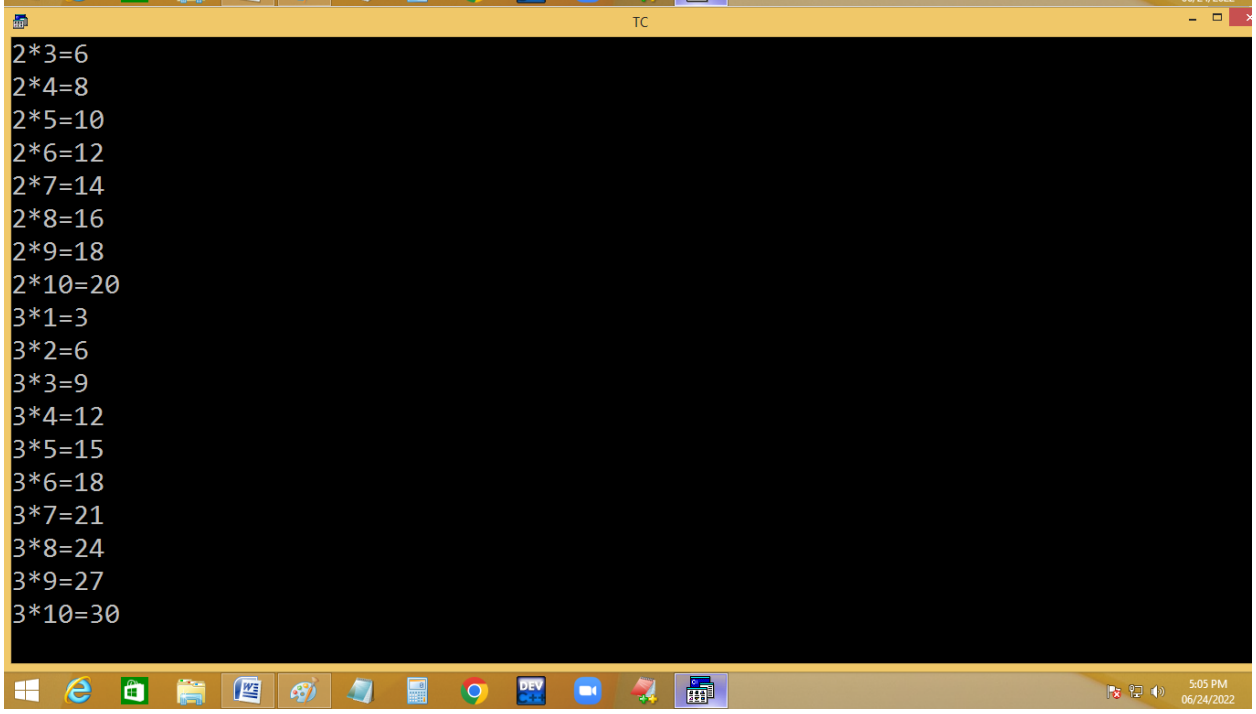
Write a program to print 1-n tables.




TC
File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 1 Insert Indent Tab Fill Unindent C:TAB.CPP
#include<stdio.h>
#include<conio.h>
void main()
{
int n, i, j;
clrscr();
printf("Enter no of tables "); scanf("%d",&n);
for(i=1;i<=n;i++)
{
for(j=1;j<=10;j++)printf("%d*%d=%d\n",i,j,i*j);
getch();
}
}


TC
Enter no of tables 3
1*1=1
1*2=2
1*3=3
1*4=4
1*5=5
1*6=6
1*7=7
1*8=8
1*9=9
1*10=10


TC
1*3=3
1*4=4
1*5=5
1*6=6
1*7=7
1*8=8
1*9=9
1*10=10
2*1=2
2*2=4
2*3=6
2*4=8
2*5=10
2*6=12
2*7=14
2*8=16
2*9=18
2*10=20
5:05 PM
06/24/2022


TC
2*3=6
2*4=8
2*5=10
2*6=12
2*7=14
2*8=16
2*9=18
2*10=20
3*1=3
3*2=6
3*3=9
3*4=12
3*5=15
3*6=18
3*7=21
3*8=24
3*9=27
3*10=30
5:05 PM
06/24/2022

Turbo C++ IDE

File Edit Search Run Compile Debug Project Options Window Help

TAB.CPP

```
#include<stdio.h>
#include<conio.h>
#include<dos.h>
void main()
{
int n, i, j;
clrscr();
printf("Enter no of tables "); scanf("%d",&n);
for(i=1;i<=n;i++)
{
for(j=1;j<=10;j++){ printf("%d*%d=%d\n",i,j,i*j);delay(100);}
}
getch();
}
```

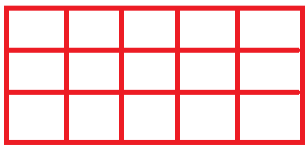
n
3

1x1=10
=

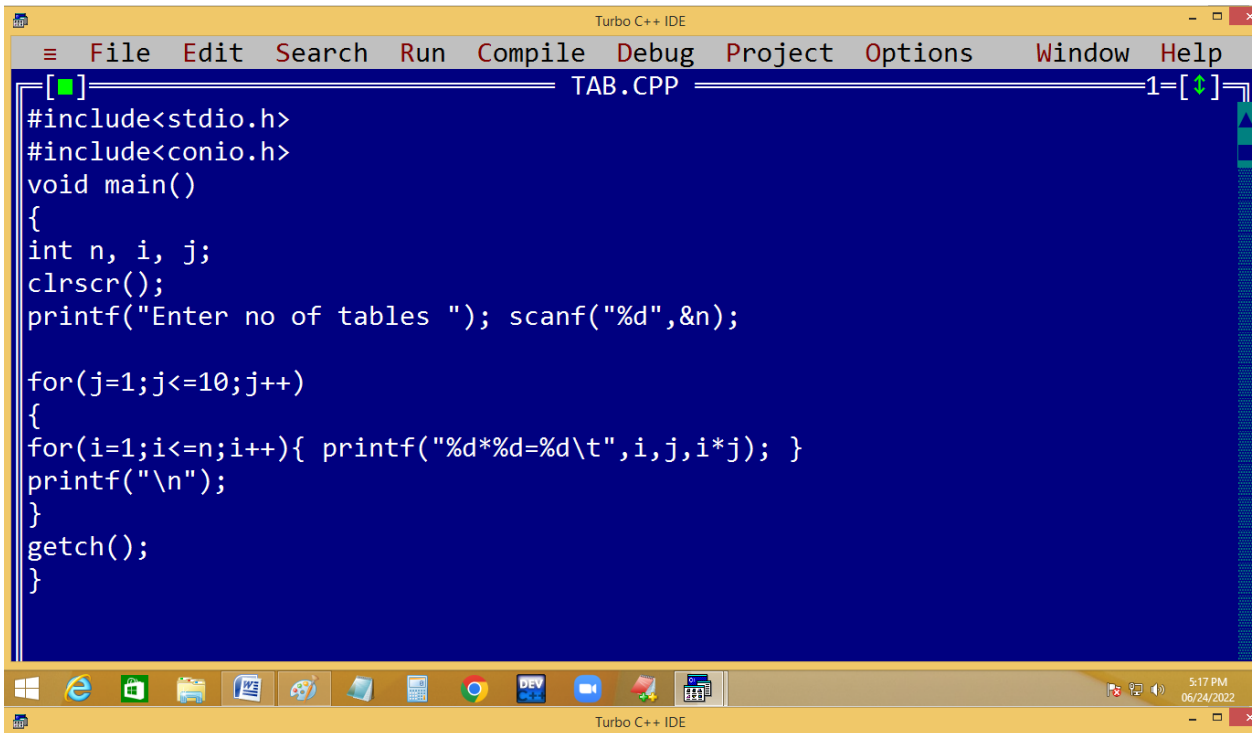
```
for(i=1;i<=3;i++) /* table no's */
{
for(j=1;j<=10;j++) p(i*j);
p("\n");
}
```

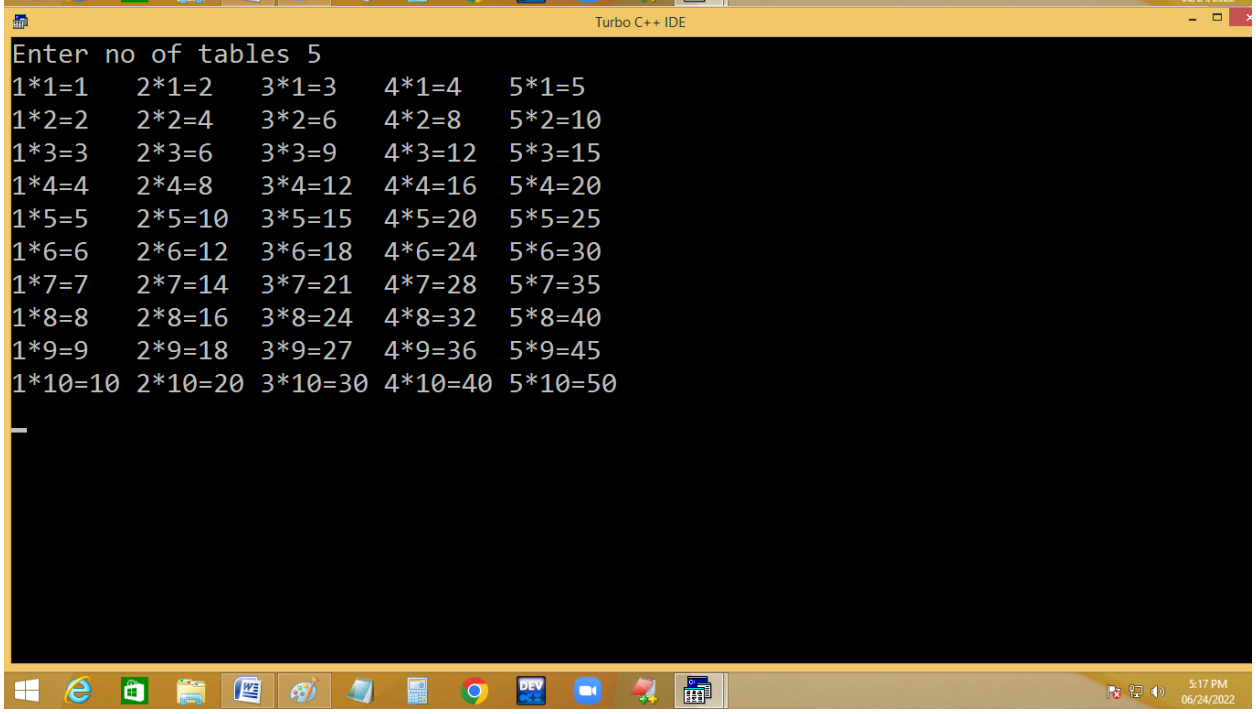
i j
1 * 1 2 3 - - 10
2 x 1 2 3 - - 10
3 x 1 - - 10

4



Tables side by side:


Turbo C++ IDE
File Edit Search Run Compile Debug Project Options Window Help
TAB.CPP
#include<stdio.h>
#include<conio.h>
void main()
{
int n, i, j;
clrscr();
printf("Enter no of tables "); scanf("%d",&n);
for(j=1;j<=10;j++)
{
for(i=1;i<=n;i++){ printf("%d*%d=%d\t",i,j,i*j); }
printf("\n");
}
getch();
}


Turbo C++ IDE
Enter no of tables 5
1*1=1 2*1=2 3*1=3 4*1=4 5*1=5
1*2=2 2*2=4 3*2=6 4*2=8 5*2=10
1*3=3 2*3=6 3*3=9 4*3=12 5*3=15
1*4=4 2*4=8 3*4=12 4*4=16 5*4=20
1*5=5 2*5=10 3*5=15 4*5=20 5*5=25
1*6=6 2*6=12 3*6=18 4*6=24 5*6=30
1*7=7 2*7=14 3*7=21 4*7=28 5*7=35
1*8=8 2*8=16 3*8=24 4*8=32 5*8=40
1*9=9 2*9=18 3*9=27 4*9=36 5*9=45
1*10=10 2*10=20 3*10=30 4*10=40 5*10=50

```
for(j=1;j<=10;j++)
{
for(i=1;i<=3;i++) /* table no's */
{   p(i*j \t ); }
 p("\n");

}
```

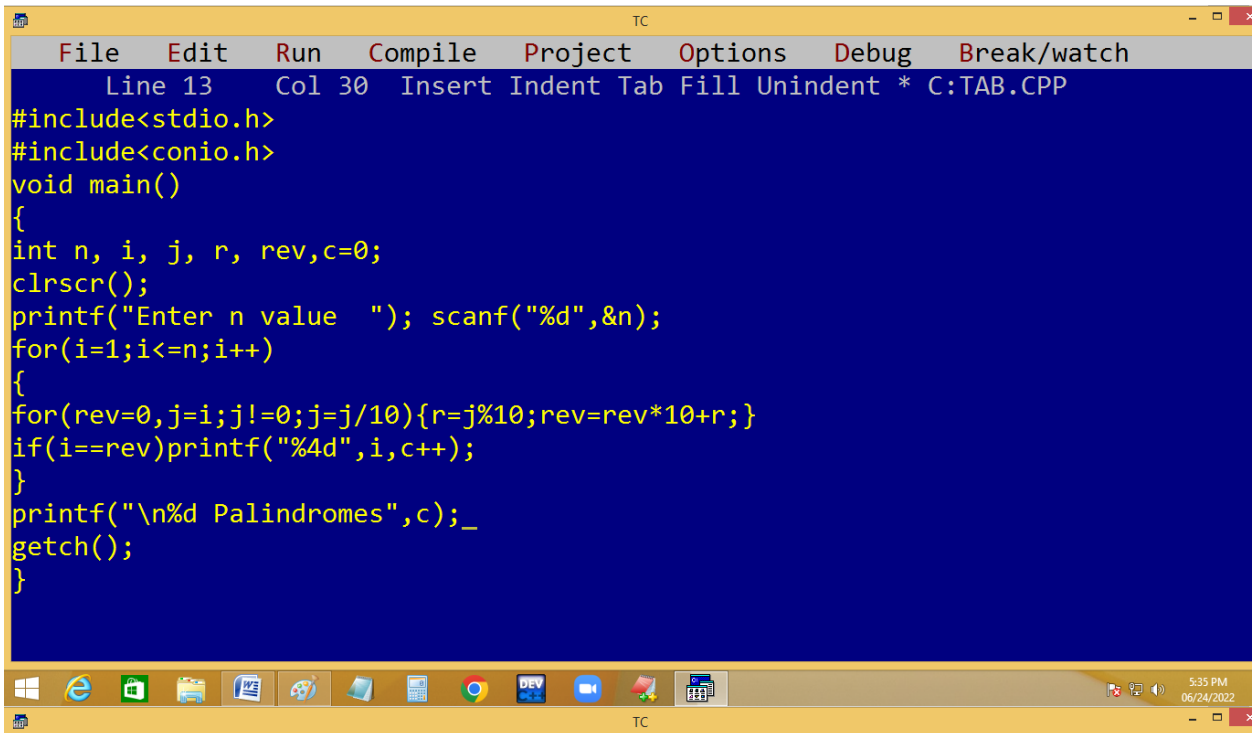
n
3

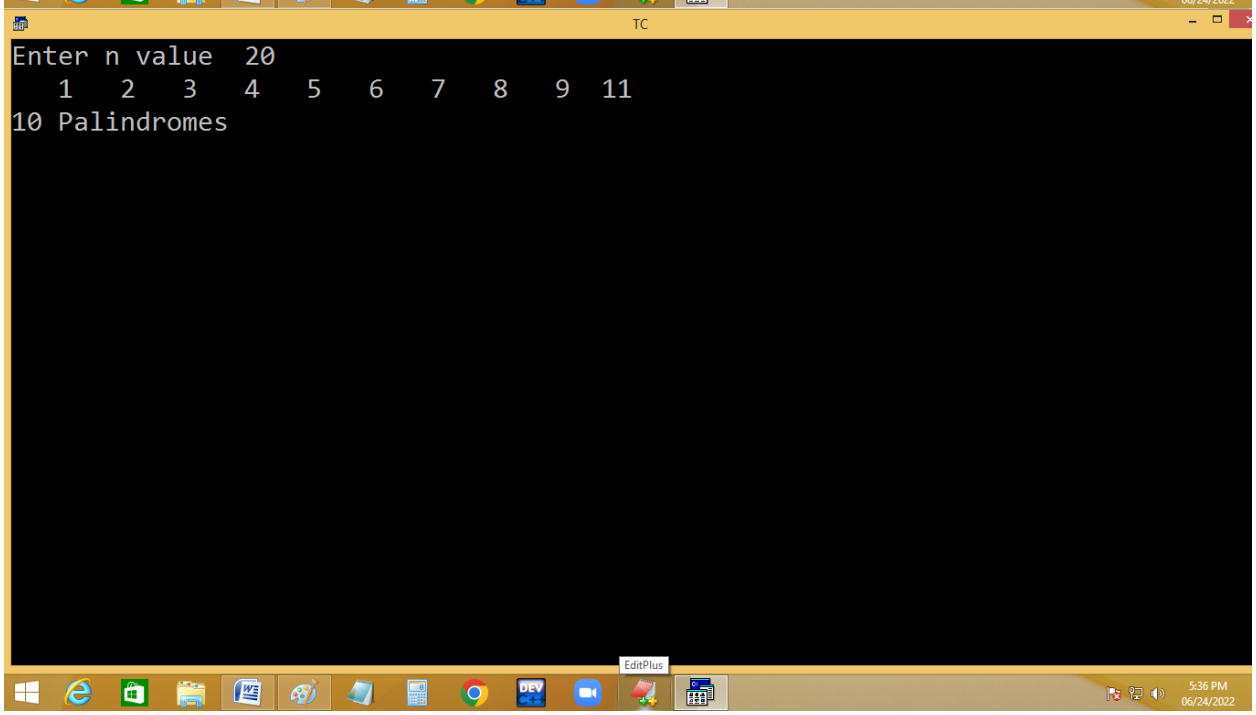
i
1 2 3 4
1 2

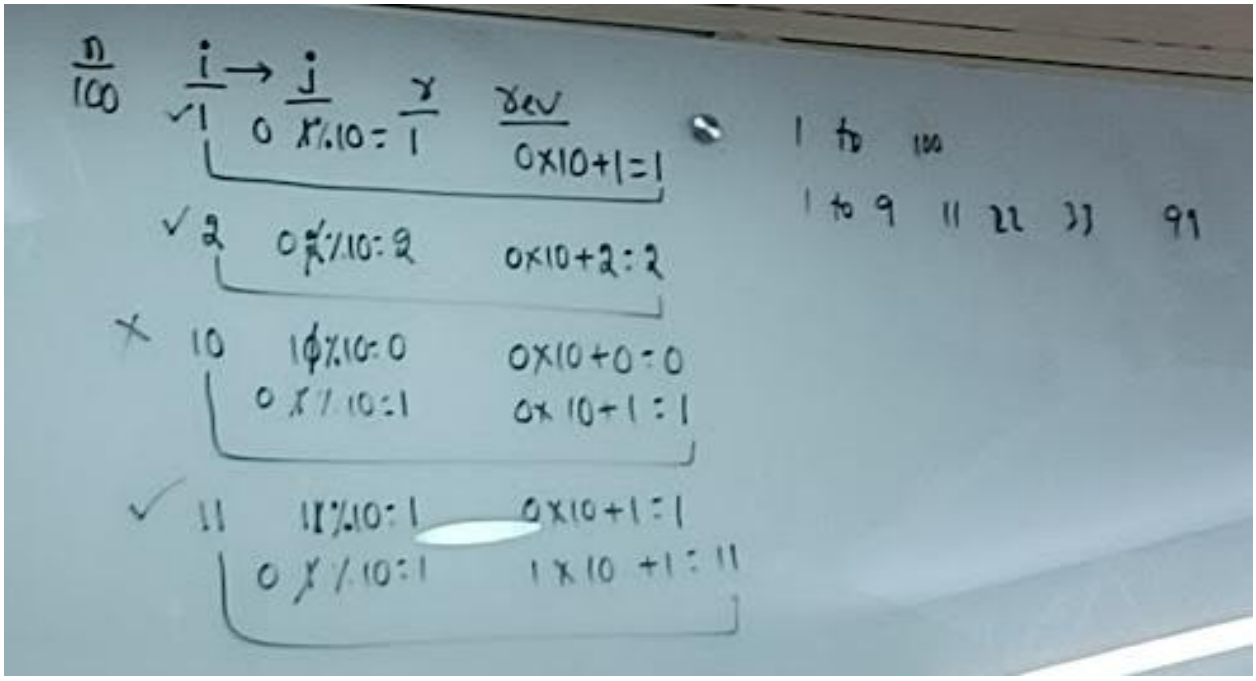
j
1
2

1X1=1 — 2X1=2 3X1=3
1*2=2 2X
=
1X10=10

Printing 1..n palindrome numbers and count.


TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 30 Insert Indent Tab Fill Unindent * C:TAB.CPP
#include<stdio.h>
#include<conio.h>
void main()
{
int n, i, j, r, 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=j/10){r=j%10;rev=rev*10+r;}
if(i==rev)printf("%4d",i,c++);
}
printf("\n%d Palindromes",c);
getch();
}


TC
Enter n value 20
1 2 3 4 5 6 7 8 9 11
10 Palindromes
EditPlus



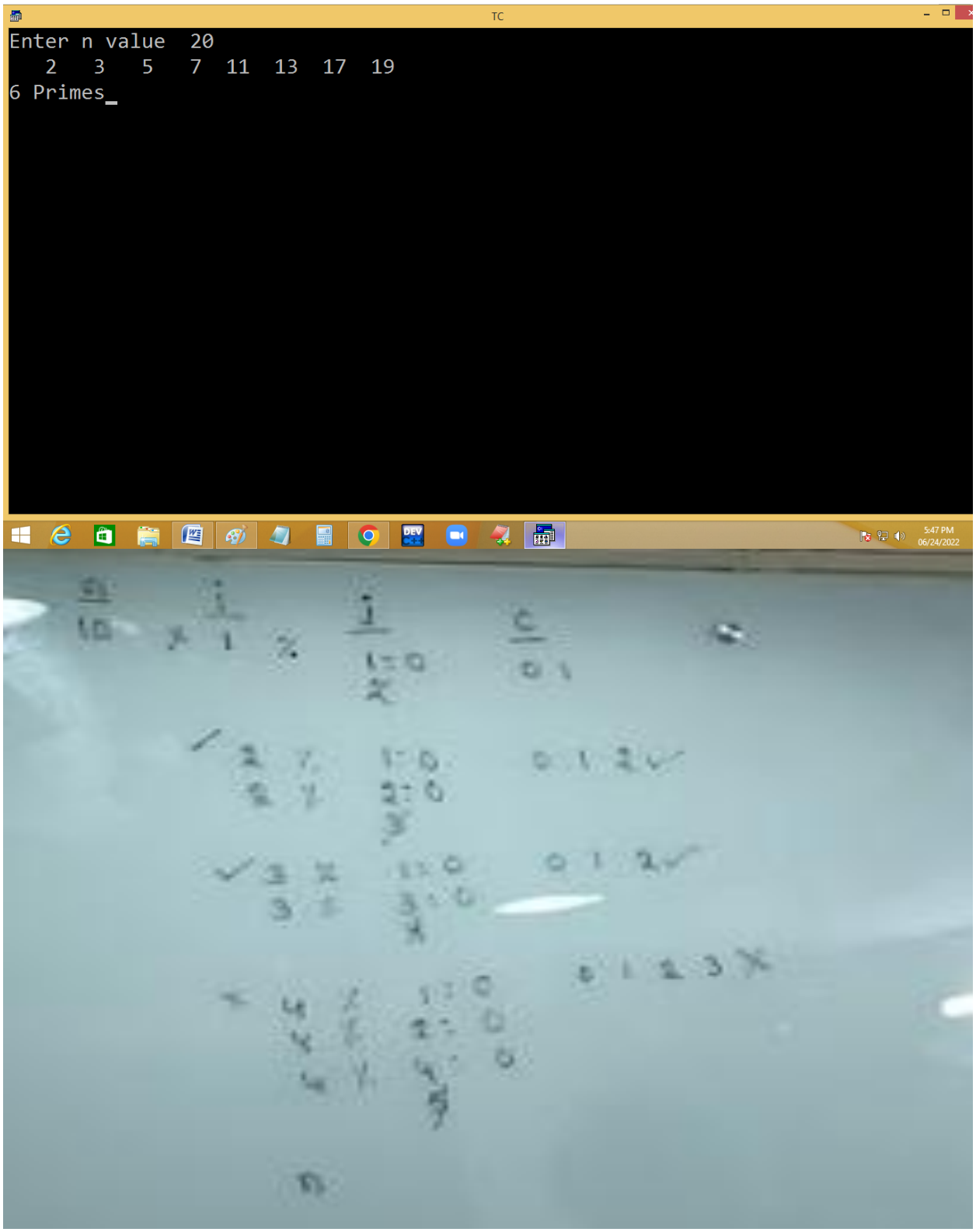
Printing 1..n prime numbers and count.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 1 Col 14 Insert Indent Tab Fill Unindent * C:TAB.CPP

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


TC
Enter n value 20
2 3 5 7 11 13 17 19
6 Primes
5:47 PM
06/24/2022