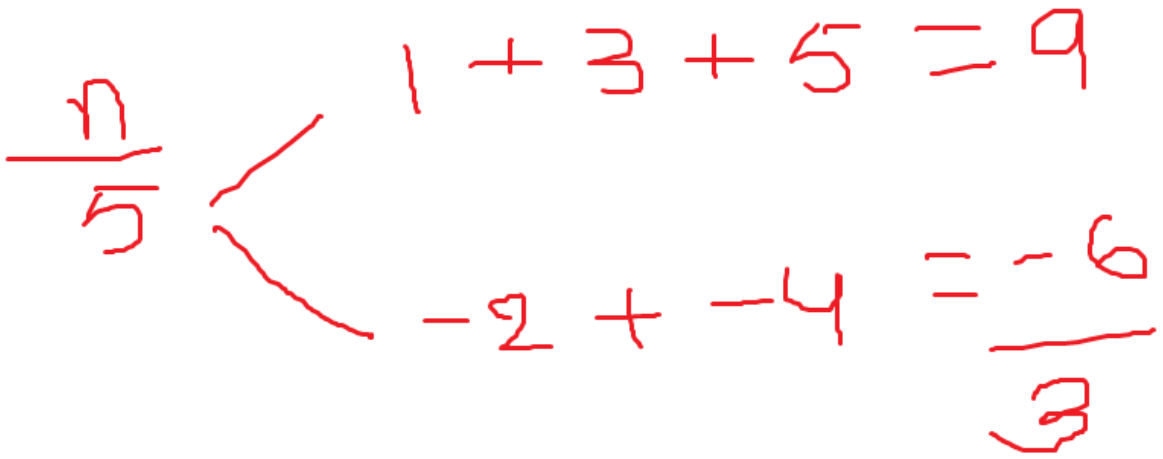
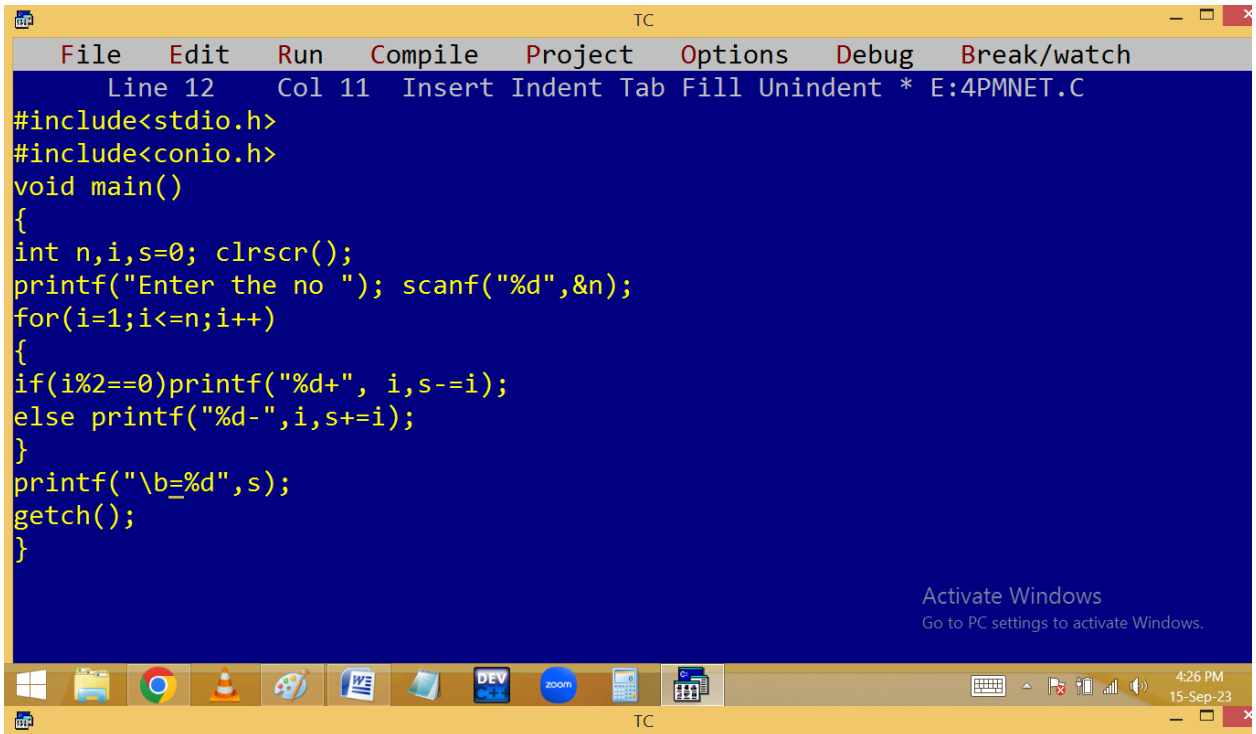
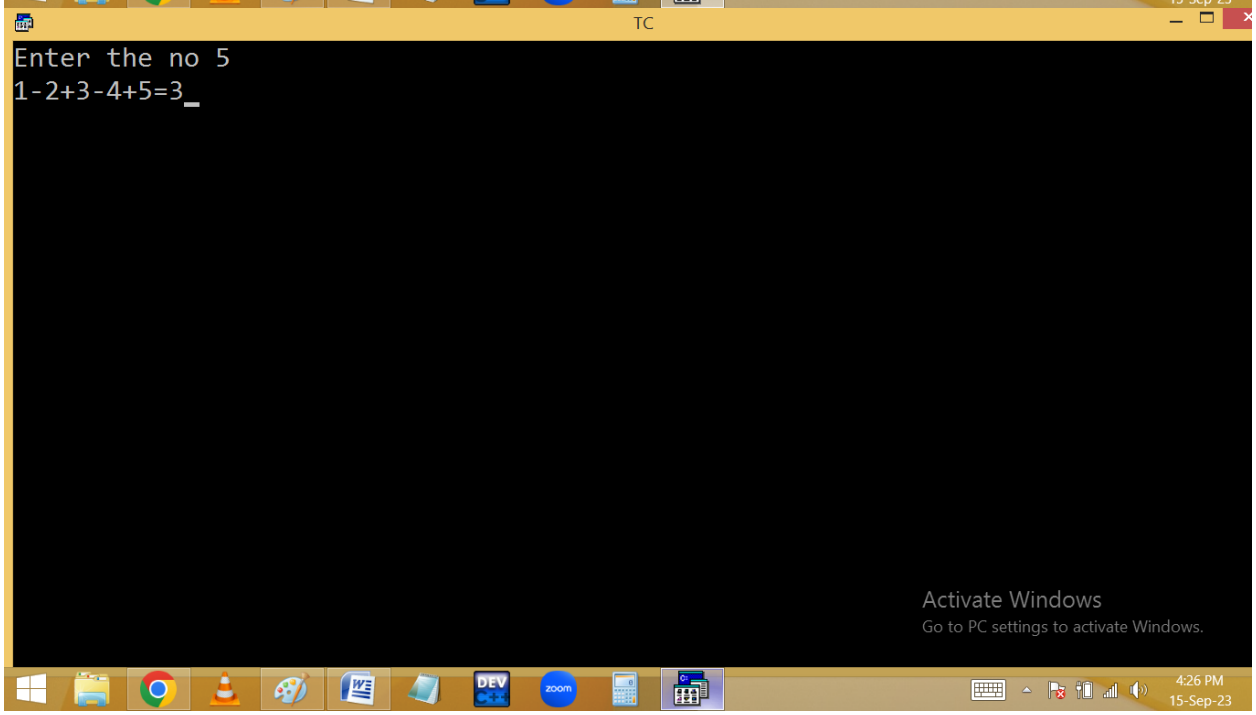
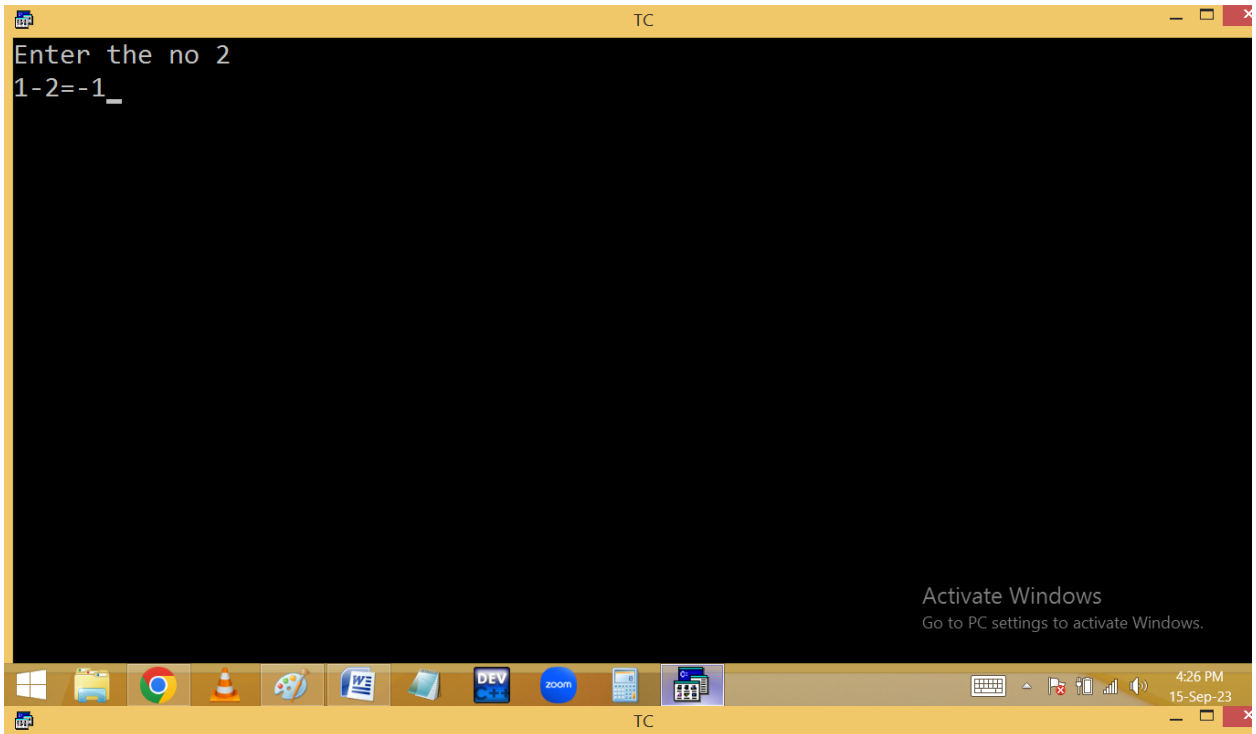
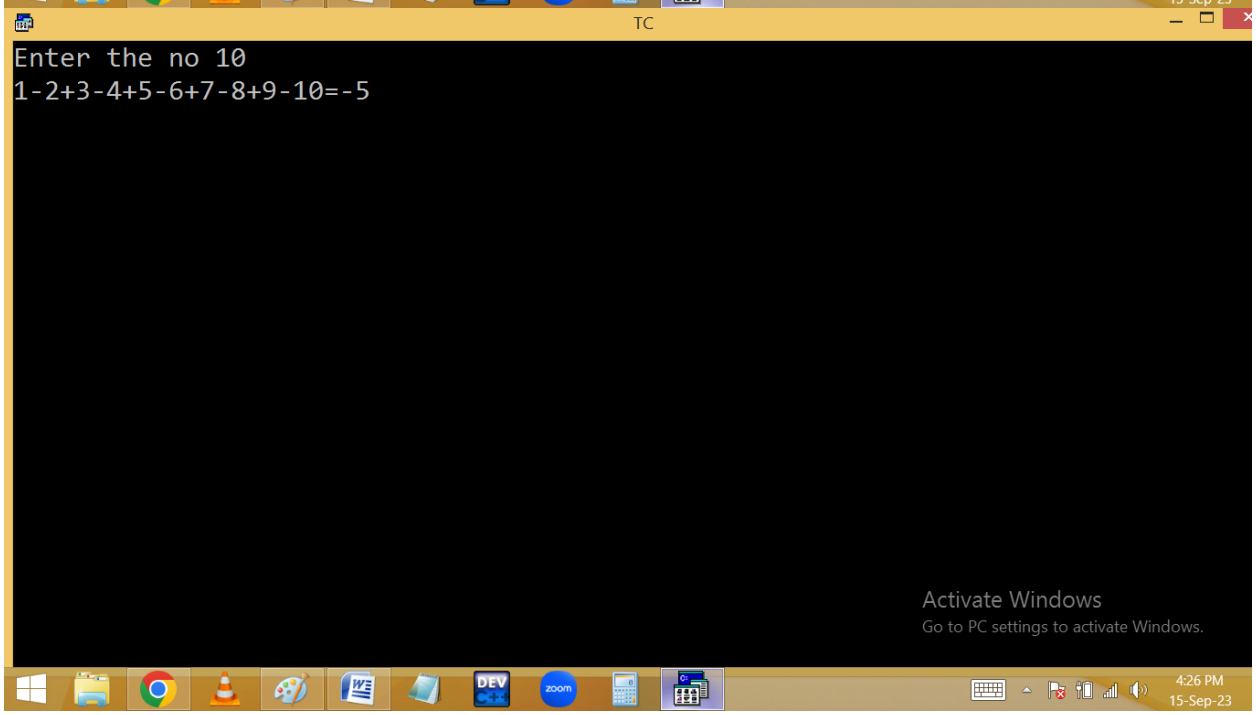
n= 5 ➔ 1-2+3-4+5=3



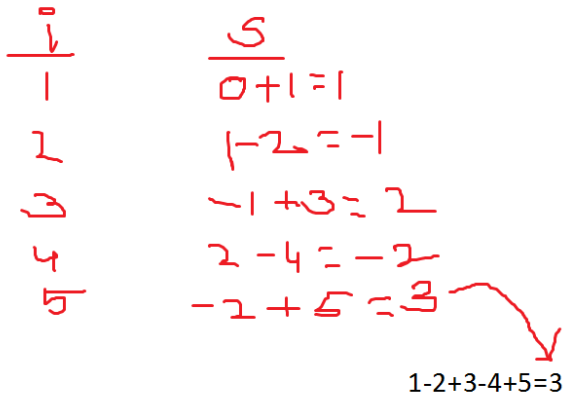

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 11 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,i,s=0; clrscr();
printf("Enter the no "); scanf("%d",&n);
for(i=1;i<=n;i++)
{
if(i%2==0)printf("%d+", i,s-=i);
else printf("%d-",i,s+=i);
}
printf("\b=%d",s);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
4:26 PM
15-Sep-23


TC
Enter the no 5
1-2+3-4+5=3
Activate Windows
Go to PC settings to activate Windows.
4:26 PM
15-Sep-23

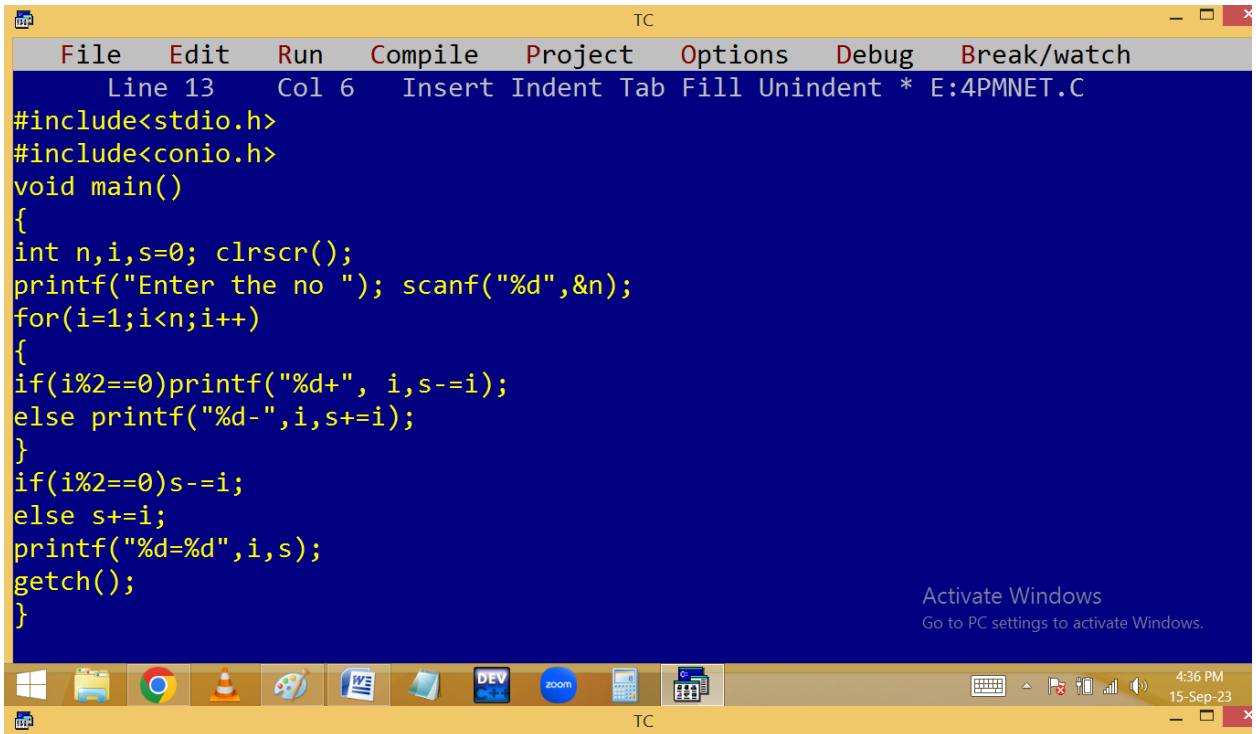

TC
Enter the no 2
1-2=-1
Activate Windows
Go to PC settings to activate Windows.
4:26 PM
15-Sep-23

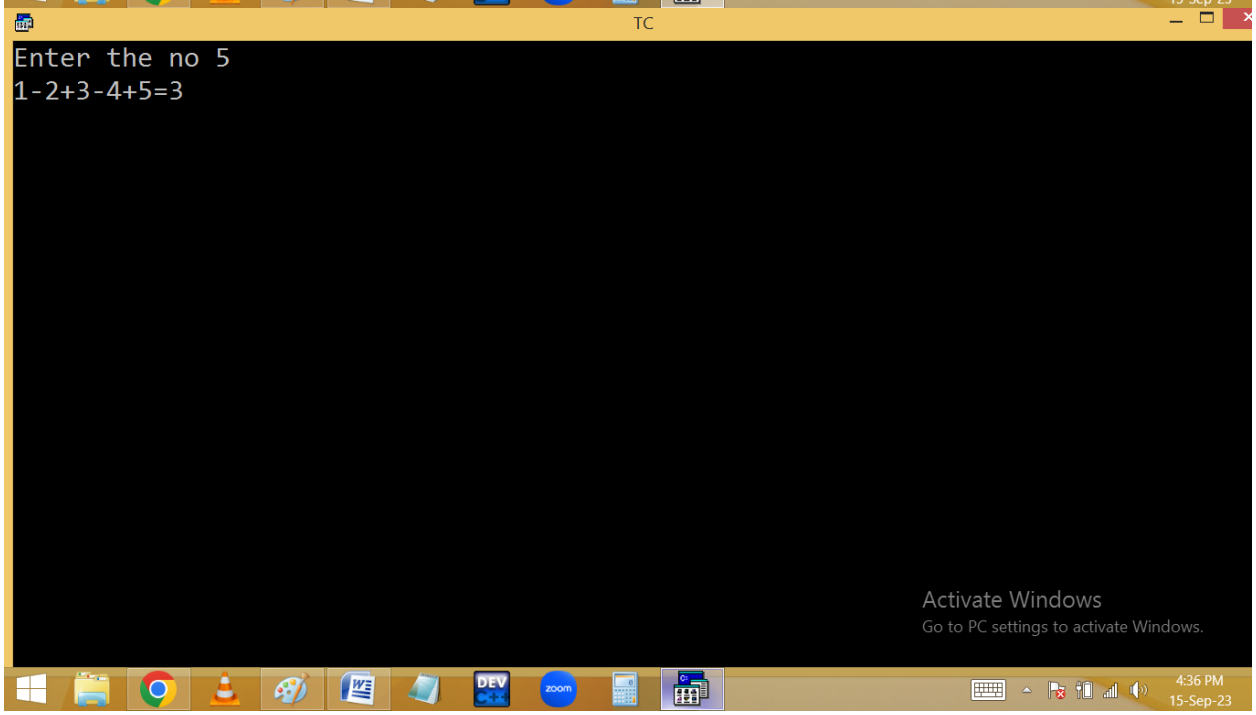

TC
Enter the no 10
1-2+3-4+5-6+7-8+9-10=-5
Activate Windows
Go to PC settings to activate Windows.
4:26 PM
15-Sep-23

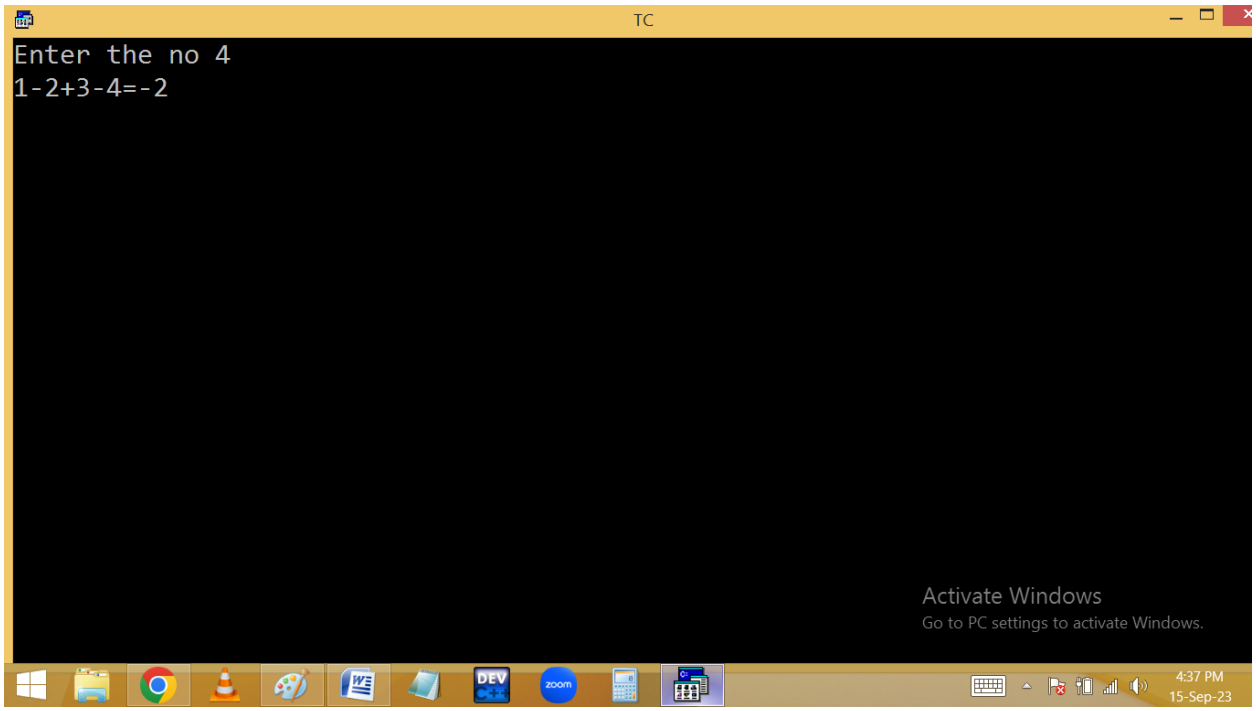
```
for( i=1; i<=5 ; i++ )
{
if( i%2==0) p("%d+",i,s-=i);
else p("%d-",i,s+=i);
}
p(s);
```



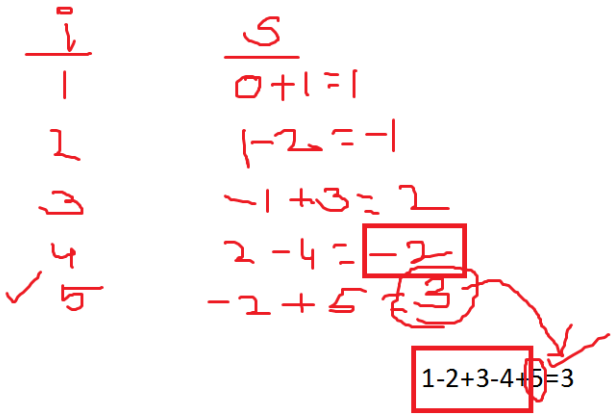
Without using '\b':


TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 6 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,i,s=0; clrscr();
printf("Enter the no "); scanf("%d",&n);
for(i=1;i<n;i++)
{
if(i%2==0)printf("%d+", i,s-=i);
else printf("%d-",i,s+=i);
}
if(i%2==0)s-=i;
else s+=i;
printf("%d=%d",i,s);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
4:36 PM
15-Sep-23


TC
Enter the no 5
1-2+3-4+5=3
Activate Windows
Go to PC settings to activate Windows.
4:36 PM
15-Sep-23

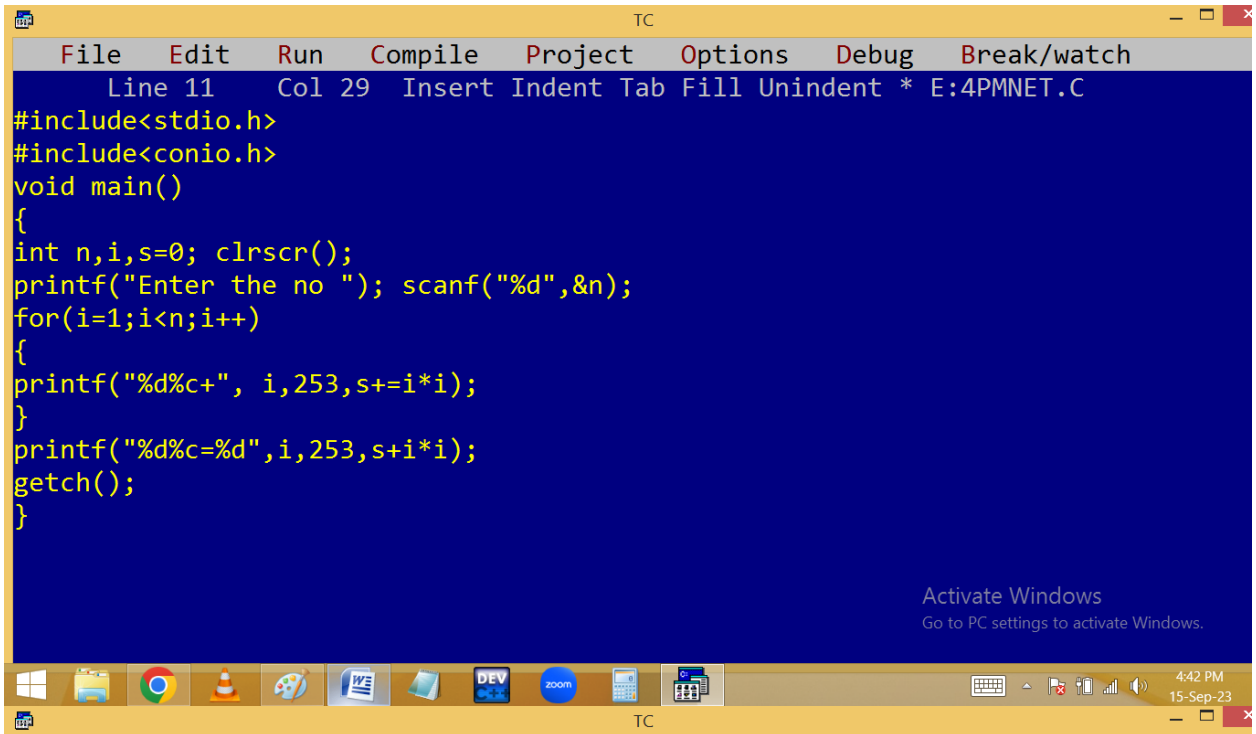


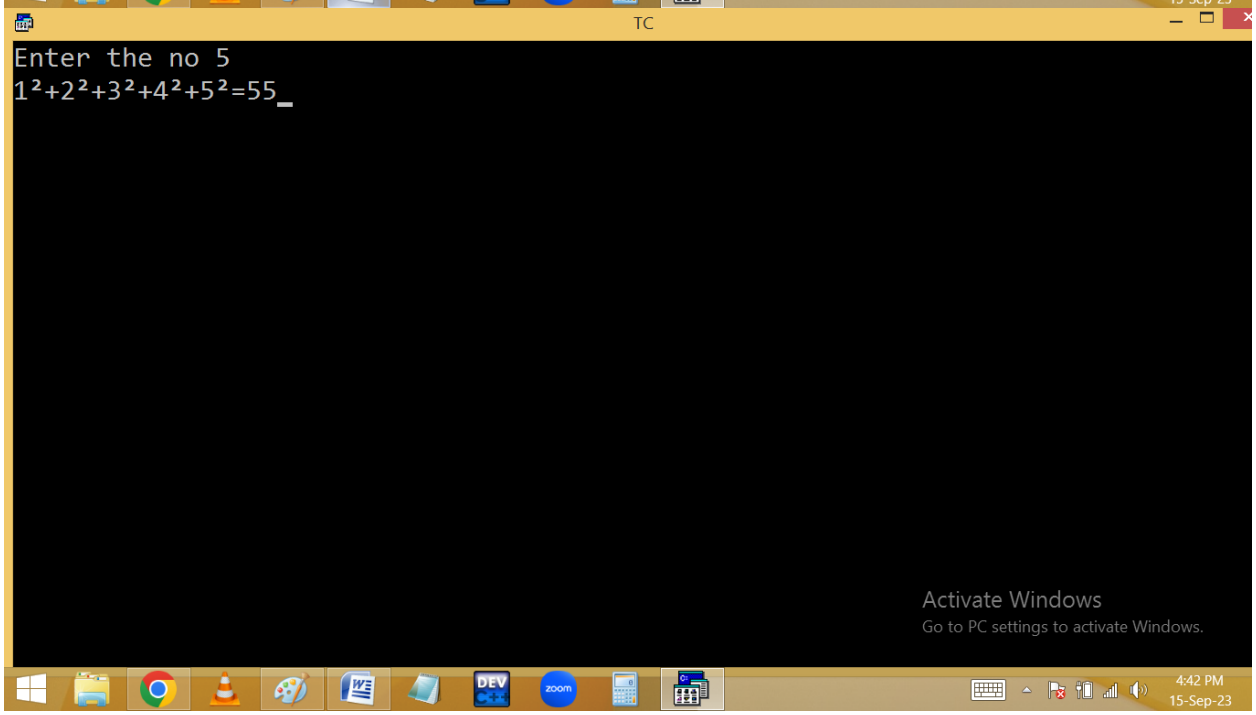

```
for( i=1; i<  5 ; i++ )
{
if( i%2==0) p("%d+",i,s-=i);
else p("%d-",i,s+=i);
}
 i%2==0?s-=i: s+=i;

 p("%d=%d",i,s);
```



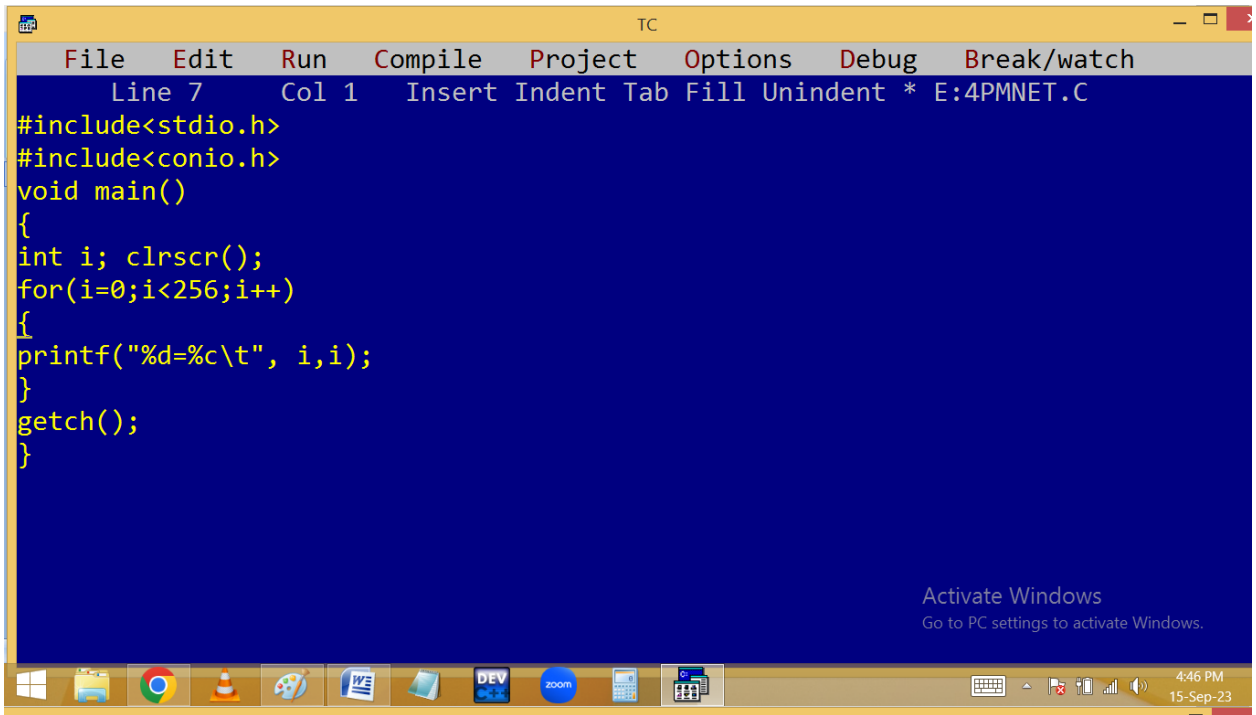
Printing below output.

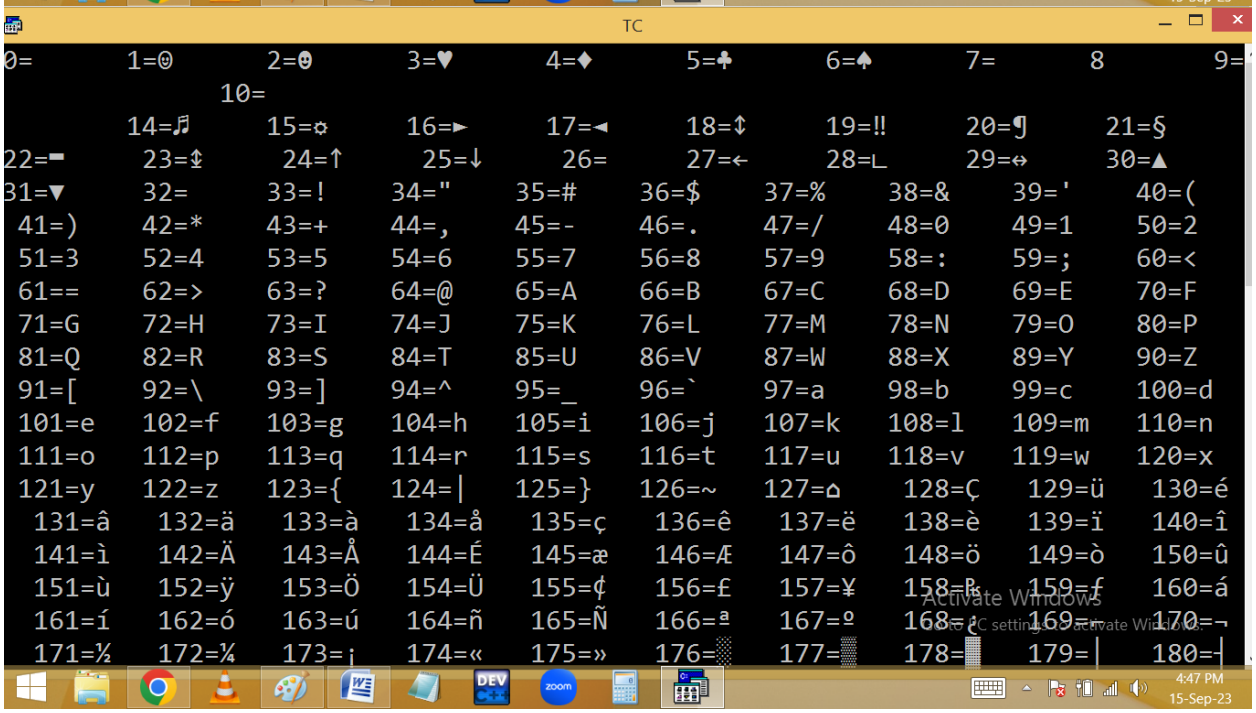
N=5 ➔ $1^2 + 2^2 + 3^2 + 4^2 + 5^2 = 55$

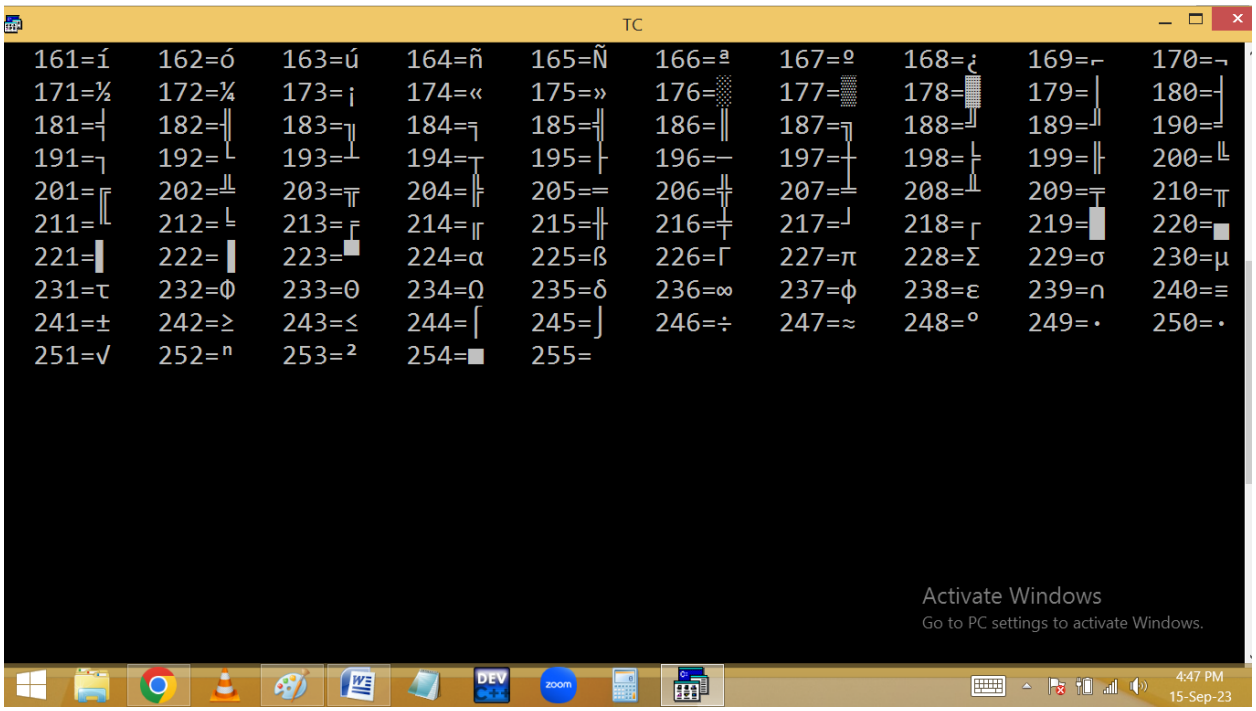

TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 29 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,i,s=0; clrscr();
printf("Enter the no "); scanf("%d",&n);
for(i=1;i<n;i++)
{
printf("%d%c+", i,253,s+=i*i);
}
printf("%d%c=%d",i,253,s+i*i);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
4:42 PM
15-Sep-23


TC
Enter the no 5
1²+2²+3²+4²+5²=55
Activate Windows
Go to PC settings to activate Windows.
4:42 PM
15-Sep-23

ASCII Table:

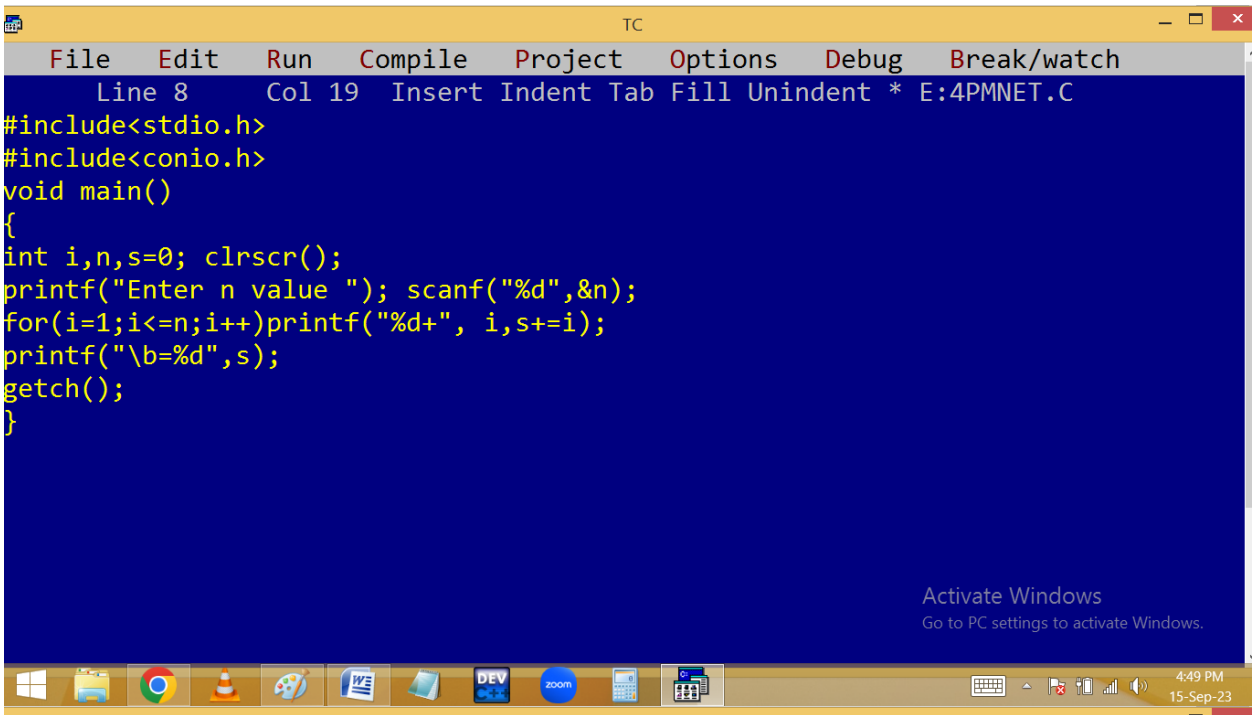

TC
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 1 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
{
int i; clrscr();
for(i=0;i<256;i++)
{
printf("%d=%c\t", i,i);
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
4:46 PM
15-Sep-23

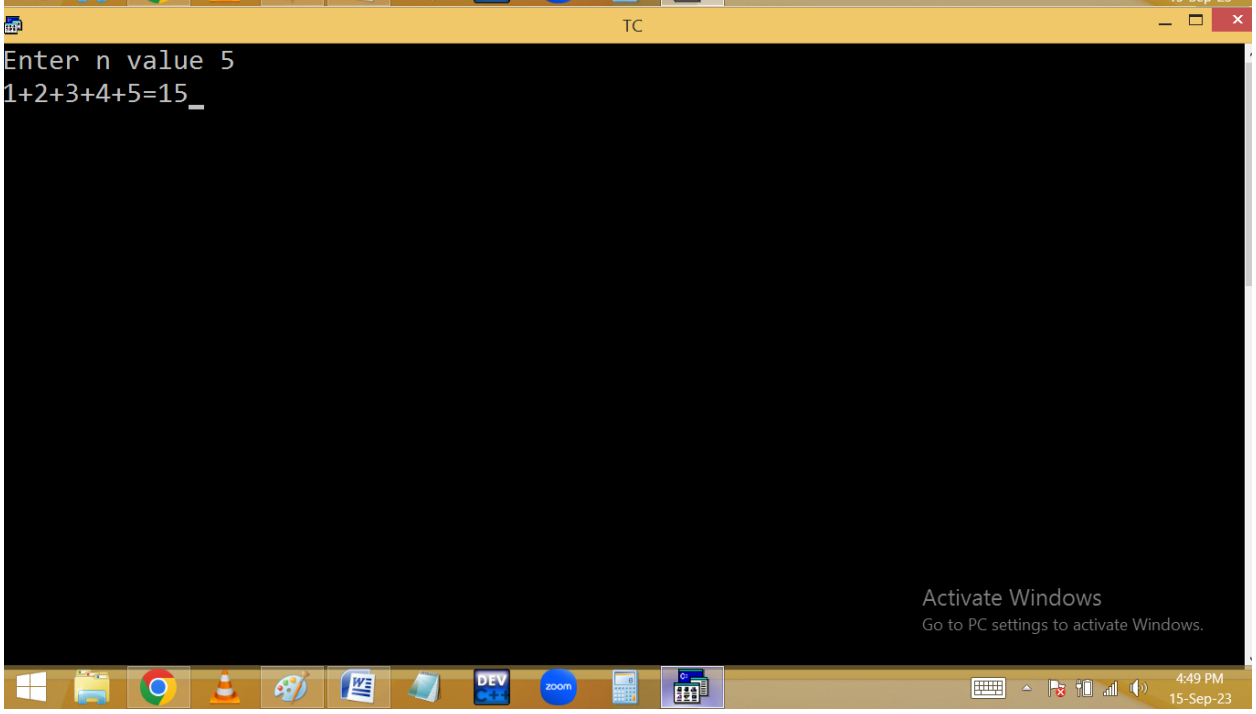

TC
0= 1=☺ 2=☻ 3=♥ 4=♦ 5=♣ 6=♠ 7= 8 9=
10=
14=♫ 15=☼ 16=► 17=◄ 18=↕ 19=‼ 20=¶ 21=§
22=▬ 23=↨ 24=↑ 25=↓ 26= 27=← 28=∟ 29=↔ 30=▲
31=▼ 32= 33=! 34=" 35=# 36=$ 37=% 38=& 39=' 40=(
41=) 42=* 43=+ 44=, 45=- 46=. 47=/ 48=0 49=1 50=2
51=3 52=4 53=5 54=6 55=7 56=8 57=9 58=: 59=; 60=<
61== 62=> 63=? 64=@ 65=A 66=B 67=C 68=D 69=E 70=F
71=G 72=H 73=I 74=J 75=K 76=L 77=M 78=N 79=O 80=P
81=Q 82=R 83=S 84=T 85=U 86=V 87=W 88=X 89=Y 90=Z
91=[92=\ 93=] 94=^ 95=_ 96=` 97=a 98=b 99=c 100=d
101=e 102=f 103=g 104=h 105=i 106=j 107=k 108=l 109=m 110=n
111=o 112=p 113=q 114=r 115=s 116=t 117=u 118=v 119=w 120=x
121=y 122=z 123={ 124=| 125=} 126=~ 127=⌂ 128=Ç 129=ü 130=é
131=â 132=ä 133=à 134=å 135=ç 136=ê 137=ë 138=è 139=ï 140=î
141=ì 142=Ä 143=Å 144=É 145=æ 146=Æ 147=ô 148=ö 149=ò 150=û
151=ù 152=ÿ 153=Ö 154=Ü 155=¢ 156=£ 157=¥ 158=₧ 159=ƒ 160=á
161=í 162=ó 163=ú 164=ñ 165=Ñ 166=ª 167=º 168=¿ 169=⌐ 170=¬
171=½ 172=¼ 173=¡ 174=« 175=» 176=▒ 177=▓ 178=█ 179=│ 180=┤
Activate Windows
Go to PC settings to activate Windows.
4:47 PM
15-Sep-23



Finding 1..n digits sum:

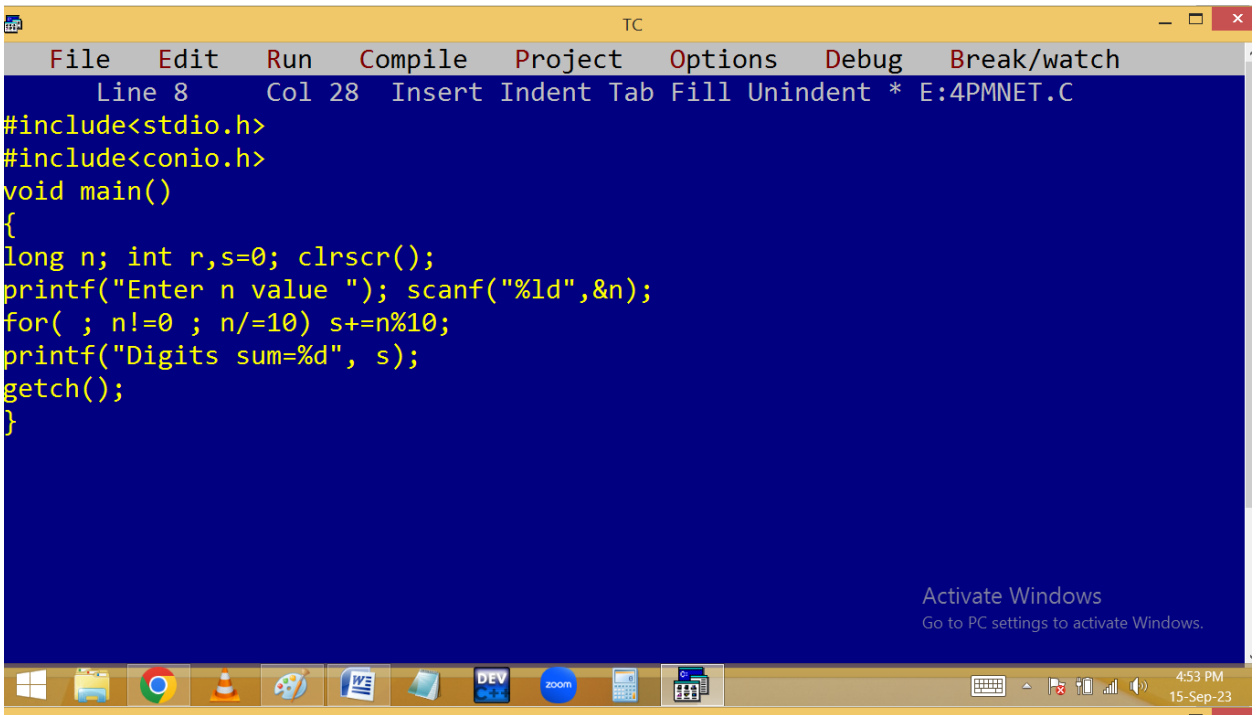
5 ➔ 1+2+3+4+5=15

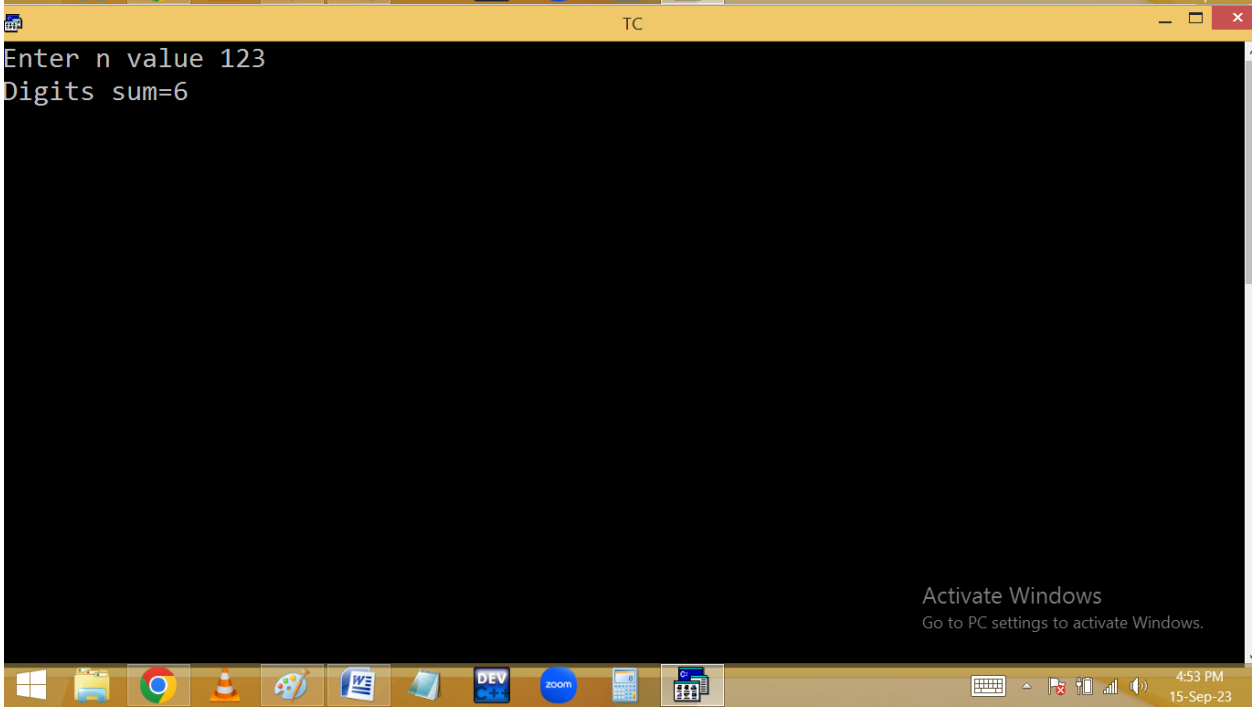


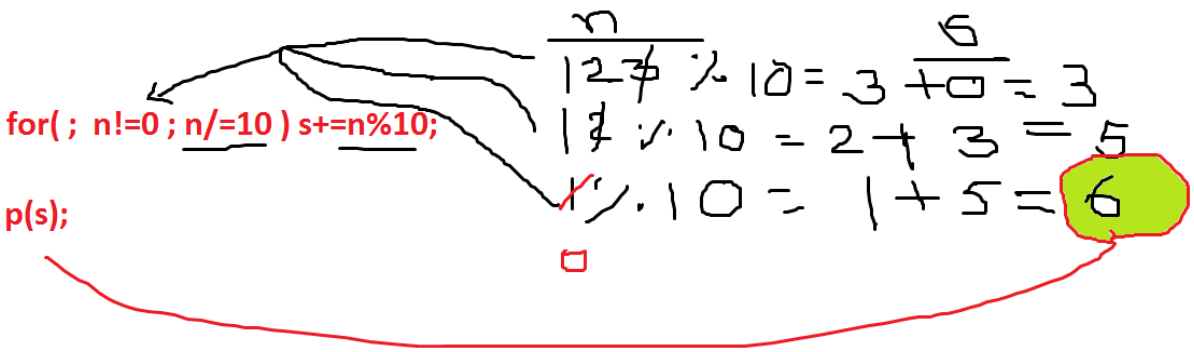


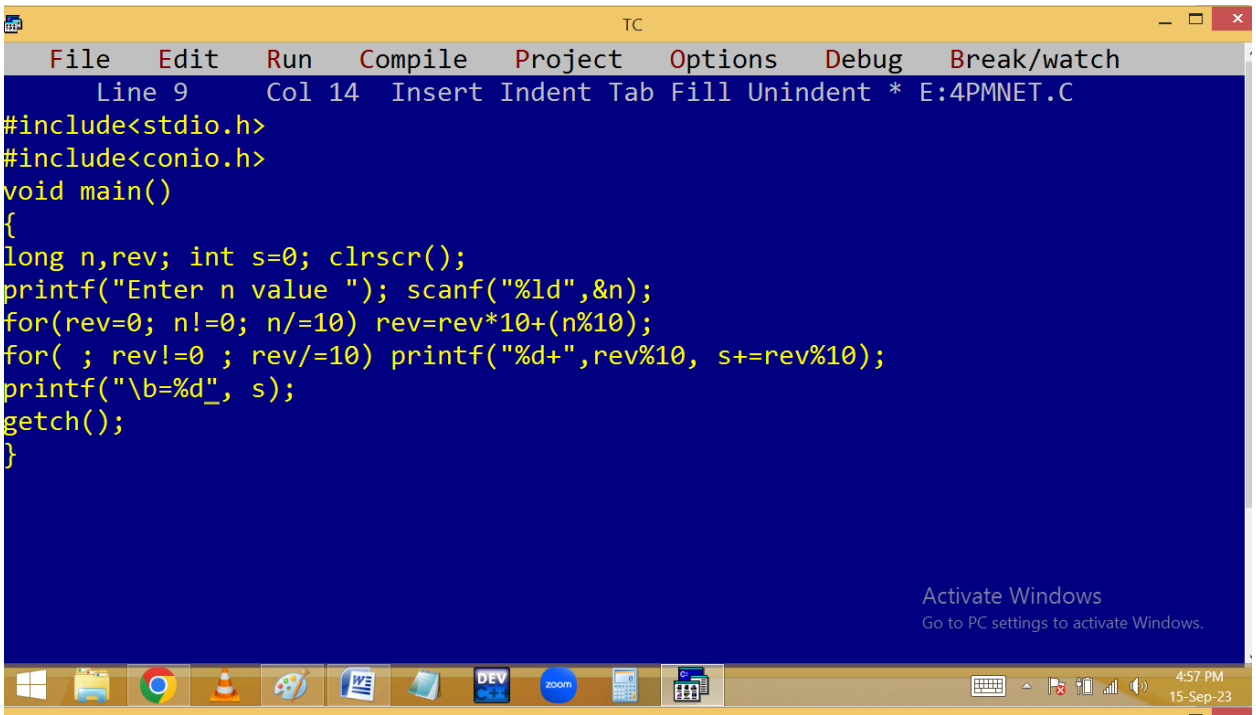
Finding digits sum:

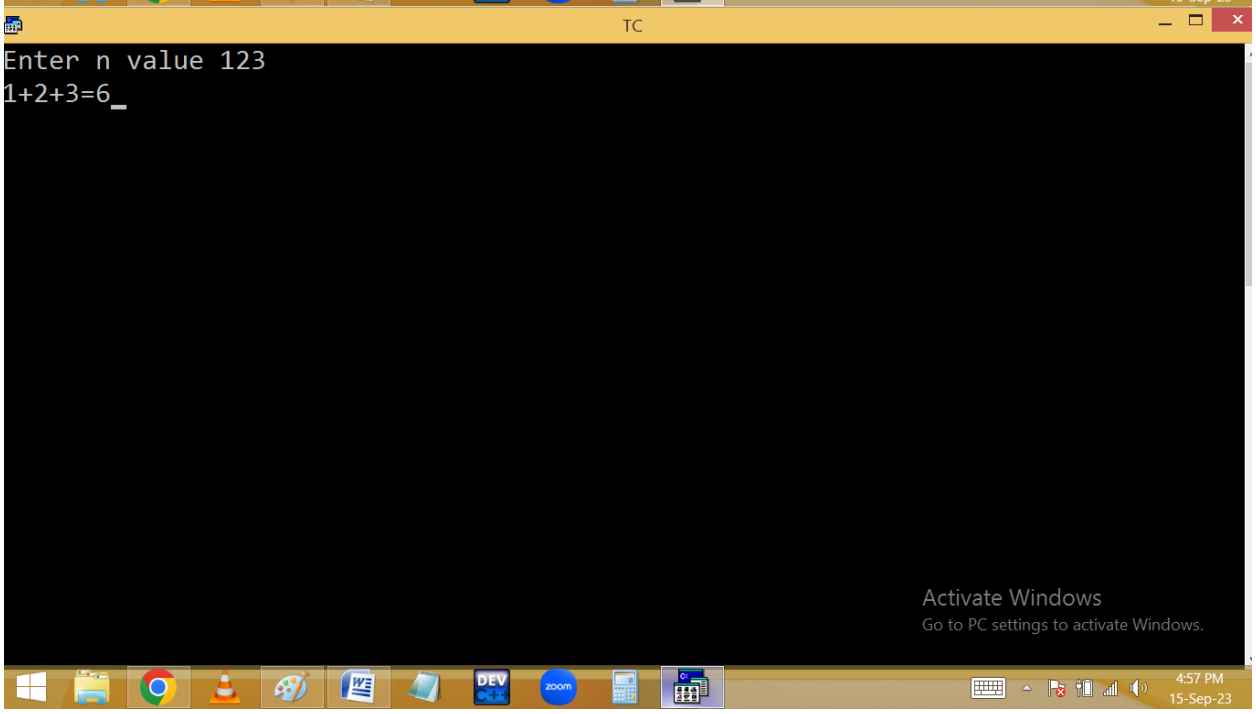
123 ➔ 1+2+3=6

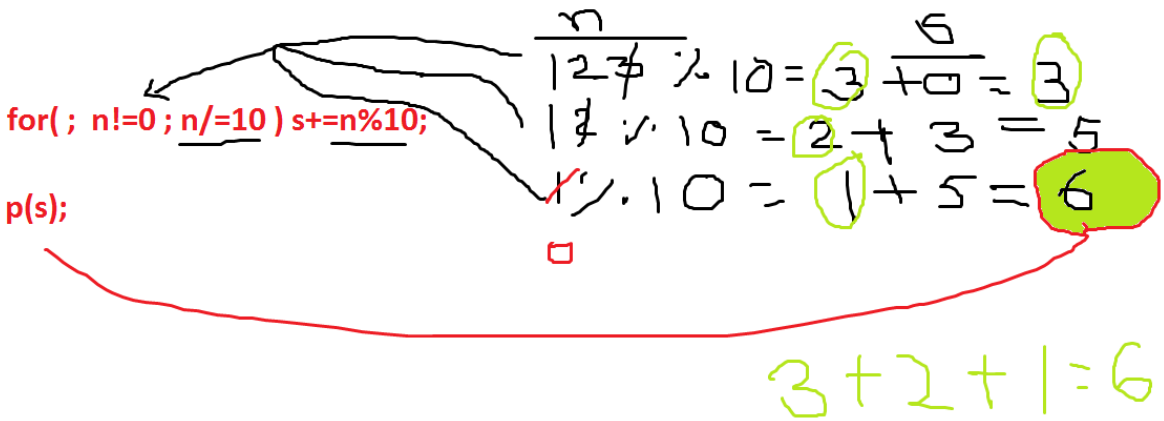

TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 28 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
{
long n; int r,s=0; clrscr();
printf("Enter n value "); scanf("%ld",&n);
for(; n!=0 ; n/=10) s+=n%10;
printf("Digits sum=%d", s);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
4:53 PM
15-Sep-23


TC
Enter n value 123
Digits sum=6
Activate Windows
Go to PC settings to activate Windows.
4:53 PM
15-Sep-23


for(; n!=0 ; n/=10) s+=n%10;
p(s);
n
127 %10 = 3
12 %10 = 2
1 %10 = 1
s
3
5
6

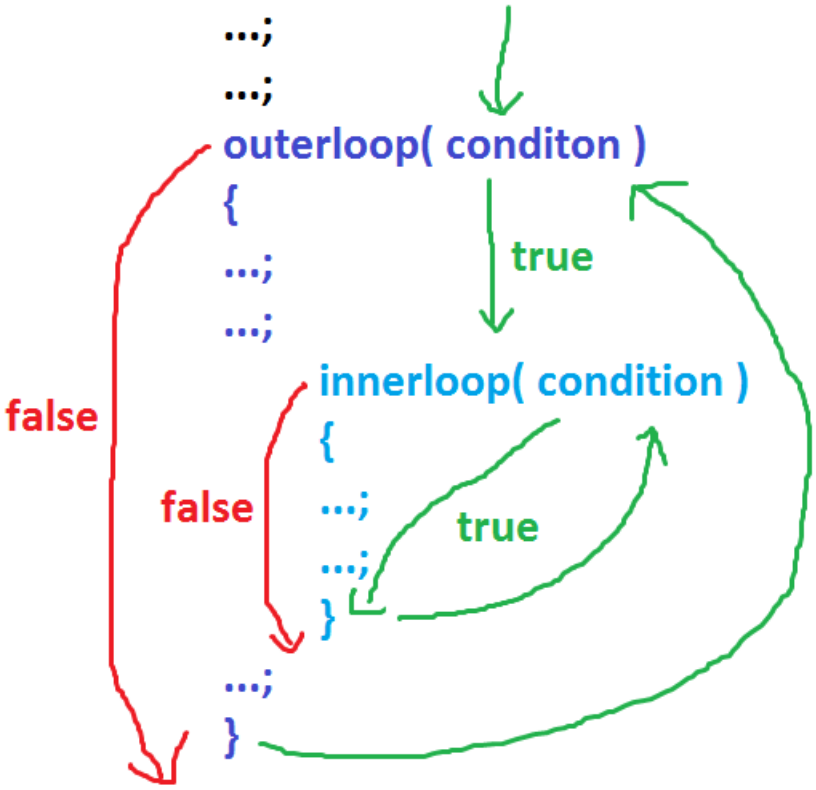

TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 14 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
{
long n,rev; int s=0; clrscr();
printf("Enter n value "); scanf("%ld",&n);
for(rev=0; n!=0; n/=10) rev=rev*10+(n%10);
for(; rev!=0 ; rev/=10) printf("%d+",rev%10, s+=rev%10);
printf("\b=%d", s);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
4:57 PM
15-Sep-23


TC
Enter n value 123
1+2+3=6
Activate Windows
Go to PC settings to activate Windows.
4:57 PM
15-Sep-23



Nested loops:

A loop within another loop is called nested loop.



Printing 1..n tables:

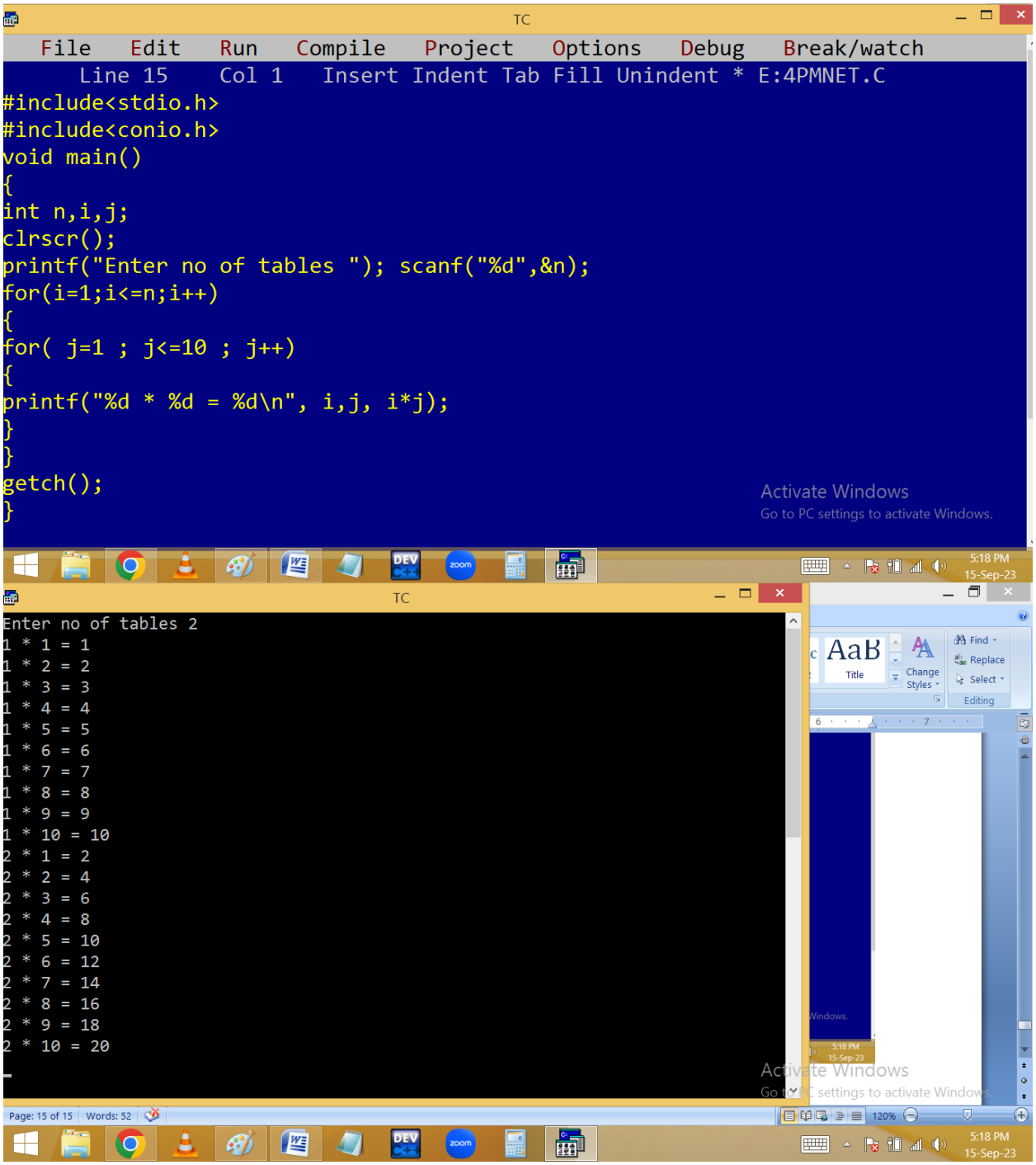
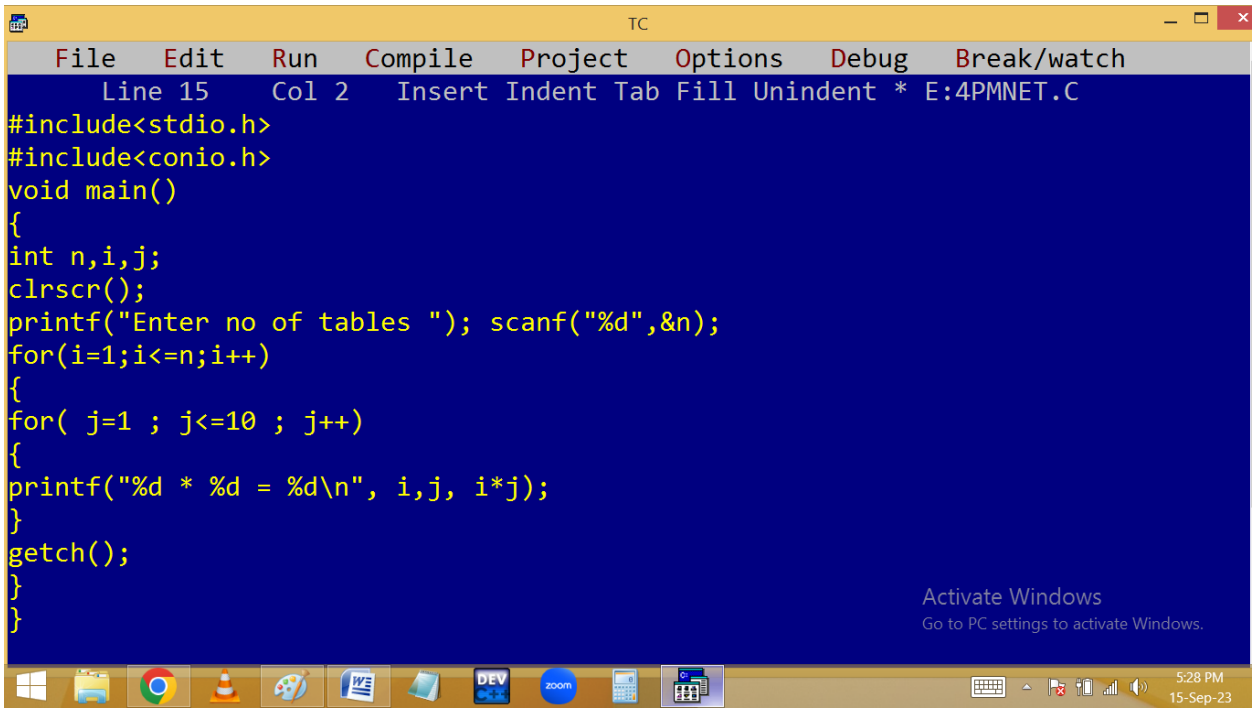
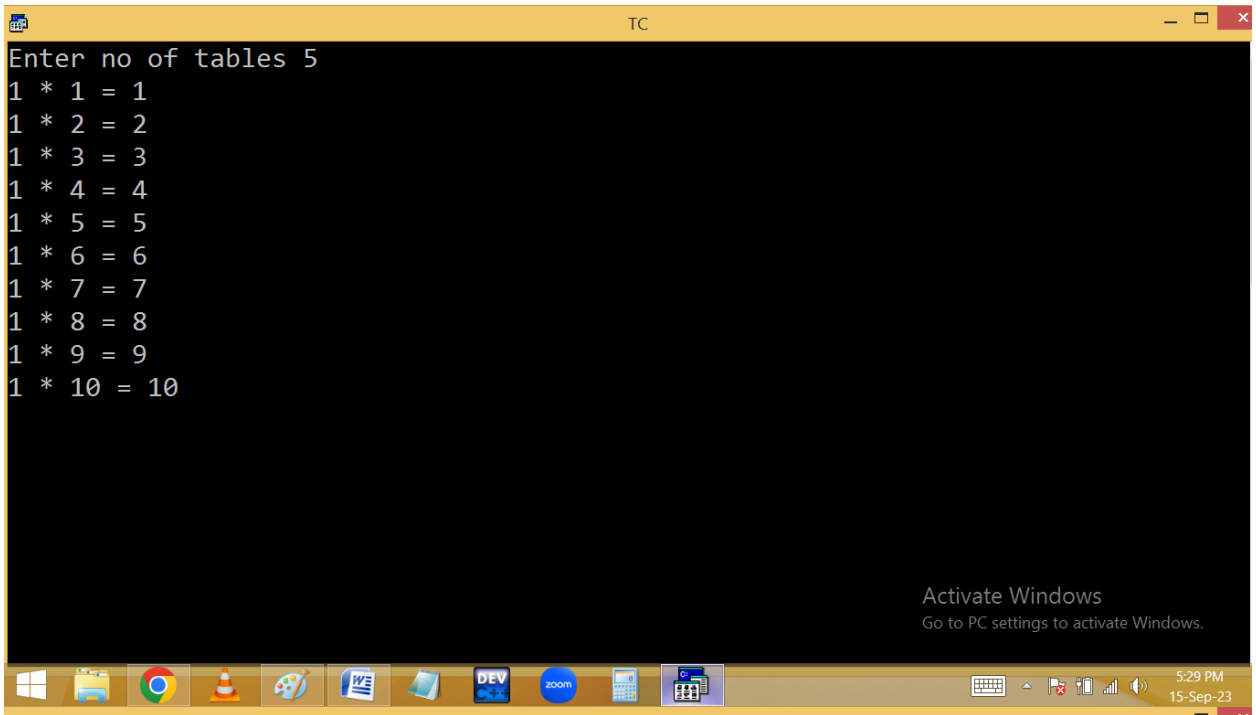
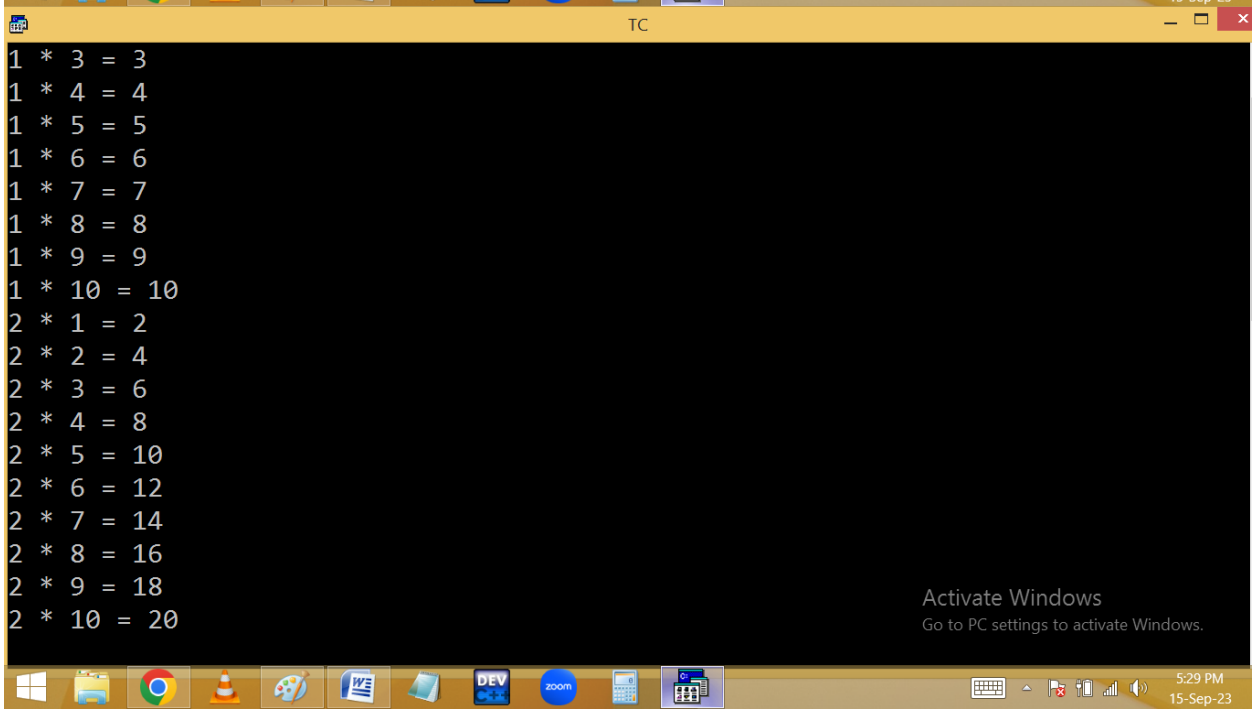
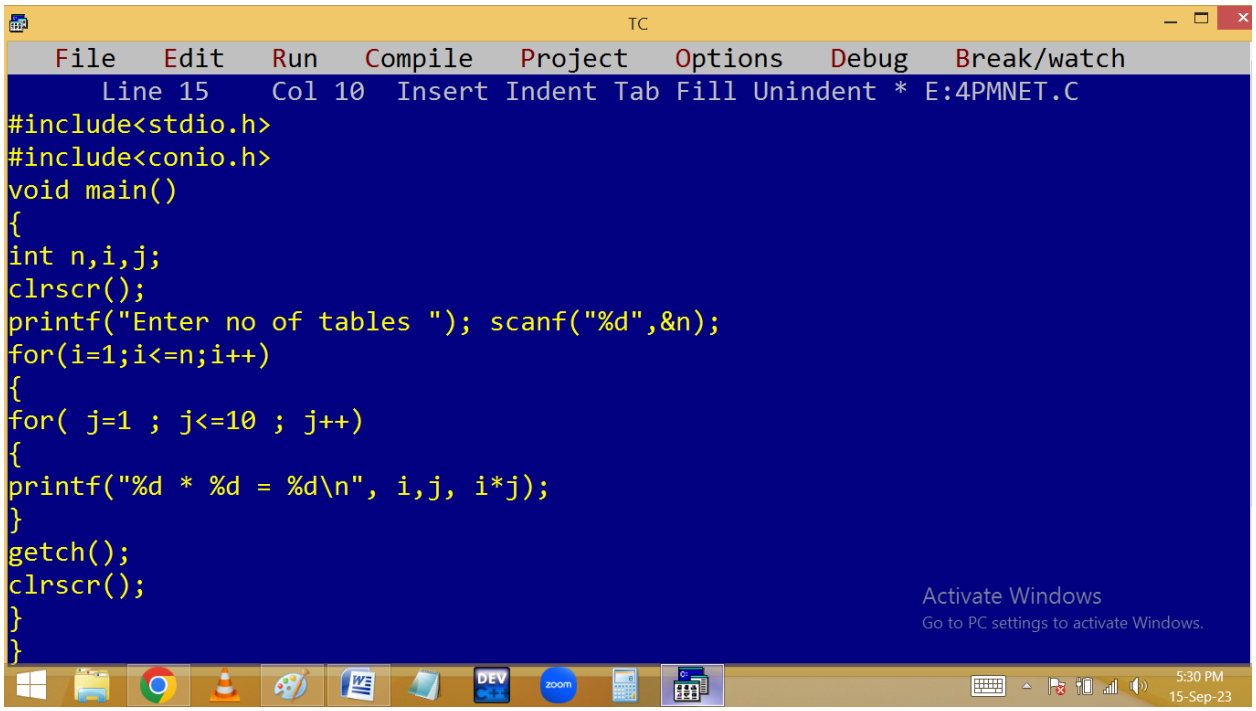


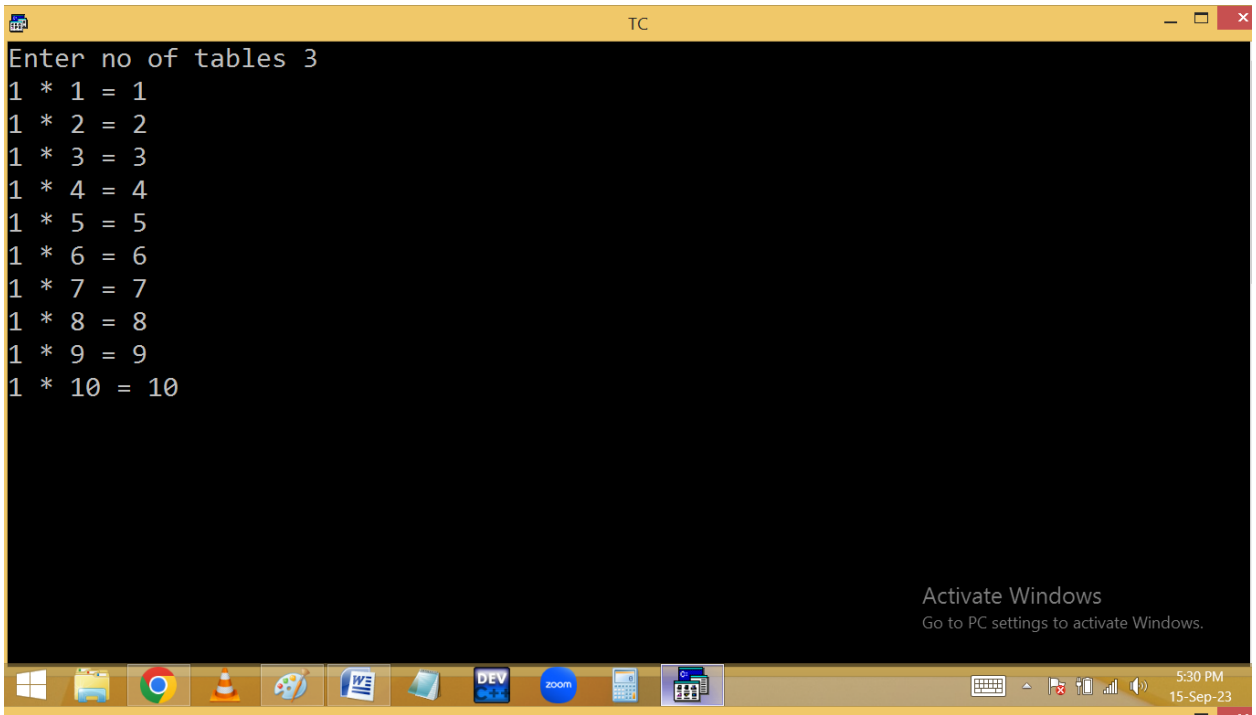
Table by table:

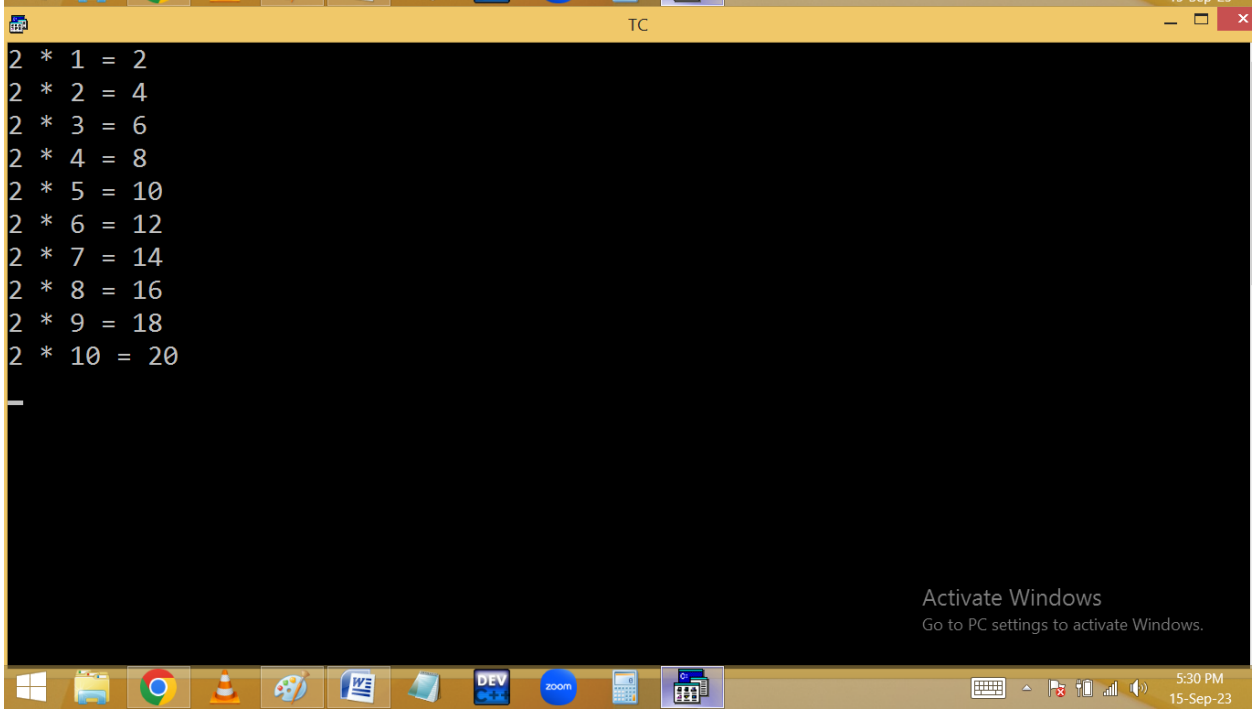


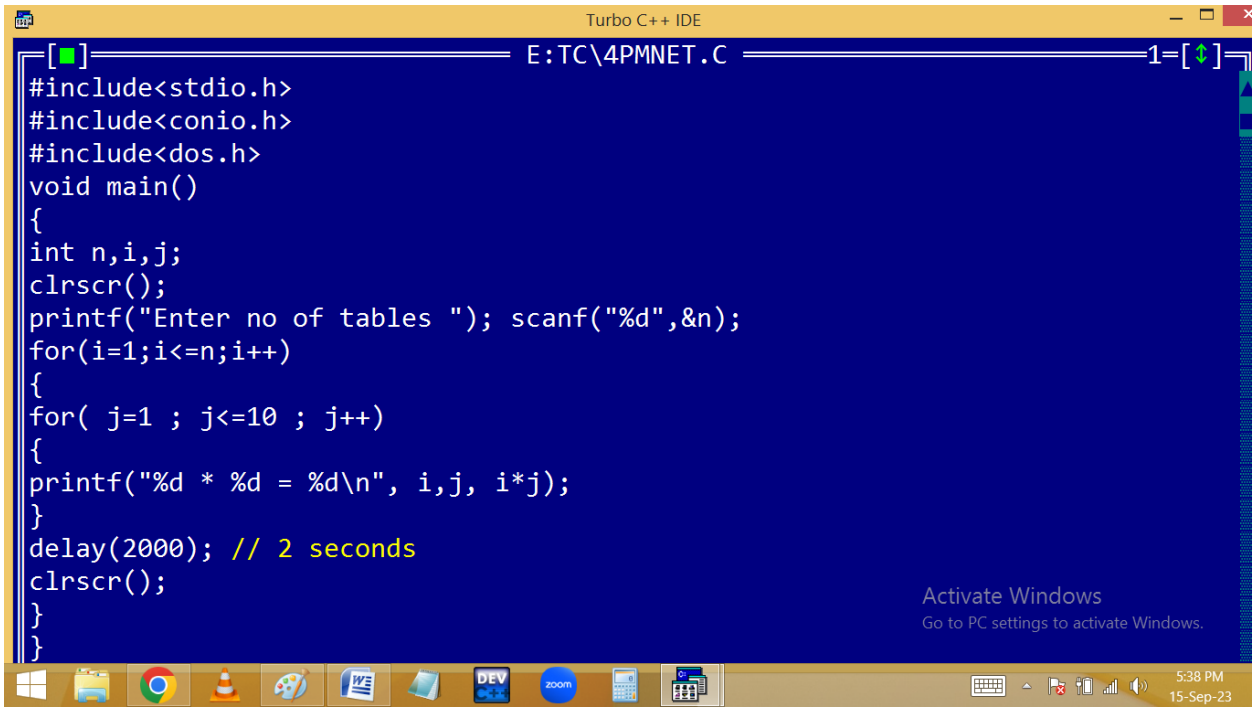

TC
Enter no of tables 5
1 * 1 = 1
1 * 2 = 2
1 * 3 = 3
1 * 4 = 4
1 * 5 = 5
1 * 6 = 6
1 * 7 = 7
1 * 8 = 8
1 * 9 = 9
1 * 10 = 10
Activate Windows
Go to PC settings to activate Windows.
5:29 PM
15-Sep-23


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
Activate Windows
Go to PC settings to activate Windows.
5:29 PM
15-Sep-23


TC
File Edit Run Compile Project Options Debug Break/watch
Line 15 Col 10 Insert Indent Tab Fill Unindent * E:4PMNET.C
#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();
clrscr();
}
}
Activate Windows
Go to PC settings to activate Windows.
5:30 PM
15-Sep-23


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
Activate Windows
Go to PC settings to activate Windows.
5:30 PM
15-Sep-23


TC
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
Activate Windows
Go to PC settings to activate Windows.
5:30 PM
15-Sep-23


Turbo C++ IDE
E:TC\4PMNET.C
#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(2000); // 2 seconds
clrscr();
}
}
Activate Windows
Go to PC settings to activate Windows.
5:38 PM
15-Sep-23

Turbo C++ IDE

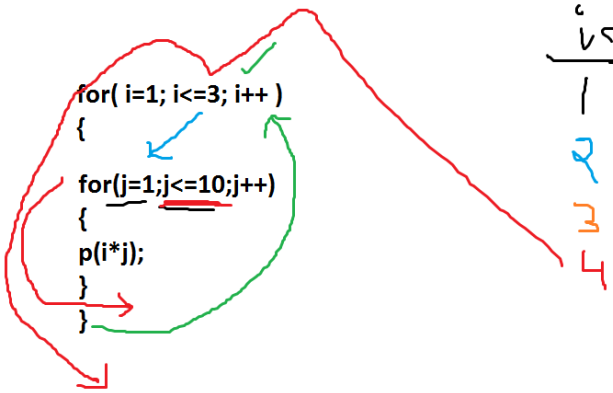
File Edit Search Run Compile Debug Project Options Window Help

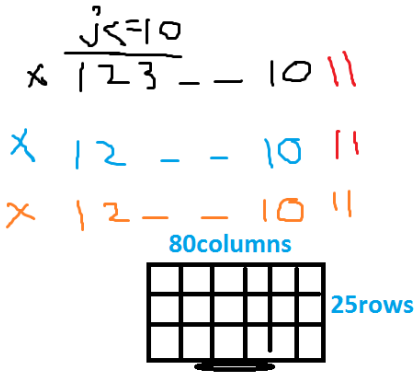
E:TC\4PMNET.C

```
#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); // 100 milli seconds
}
}
}
```

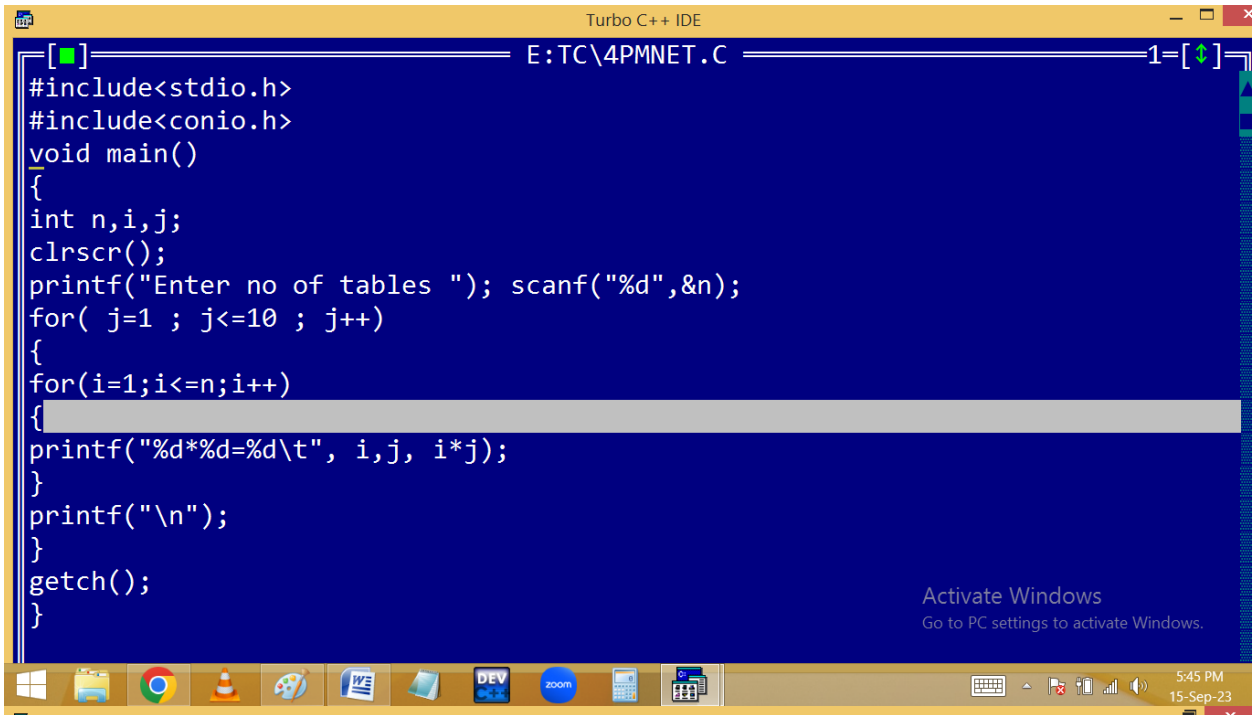
Activate Windows
Go to PC settings to activate Windows.

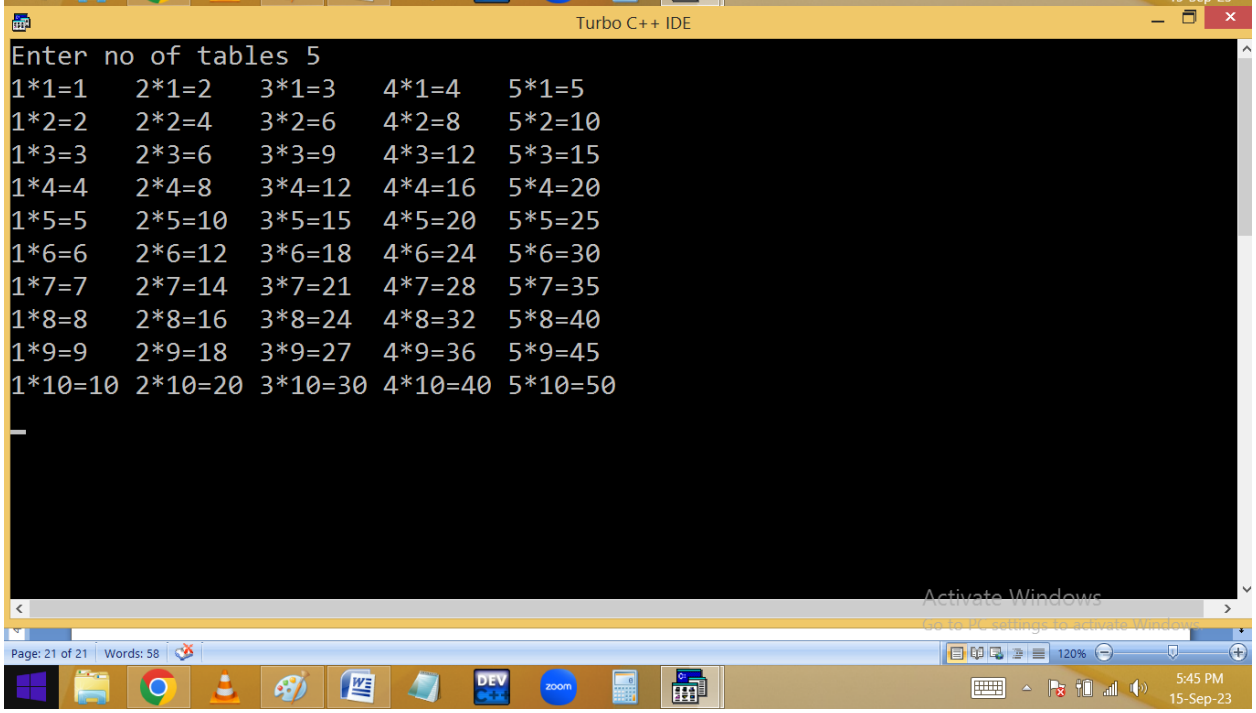
5:41 PM
15-Sep-23



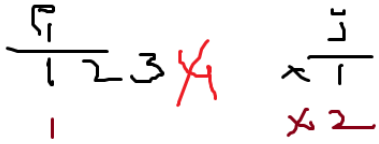


Side by side:


Turbo C++ IDE
E:TC\4PMNET.C
#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();
}
Activate Windows
Go to PC settings to activate Windows.
5:45 PM
15-Sep-23


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
Activate Windows
Go to PC settings to activate Windows.
Page: 21 of 21
Words: 58
120%
5:45 PM
15-Sep-23

```
for( j=1; j<=10; j++)
{
for( i=1;i<=3;i++)
{
p(i*j\t");
}
p("\n");
}
```



1*1=1---- 2*1=2---- 3*1=3

1*2=2---- 2*2=4----3*2=6

1*10=10