Printing given table:

Print 9^{th} table

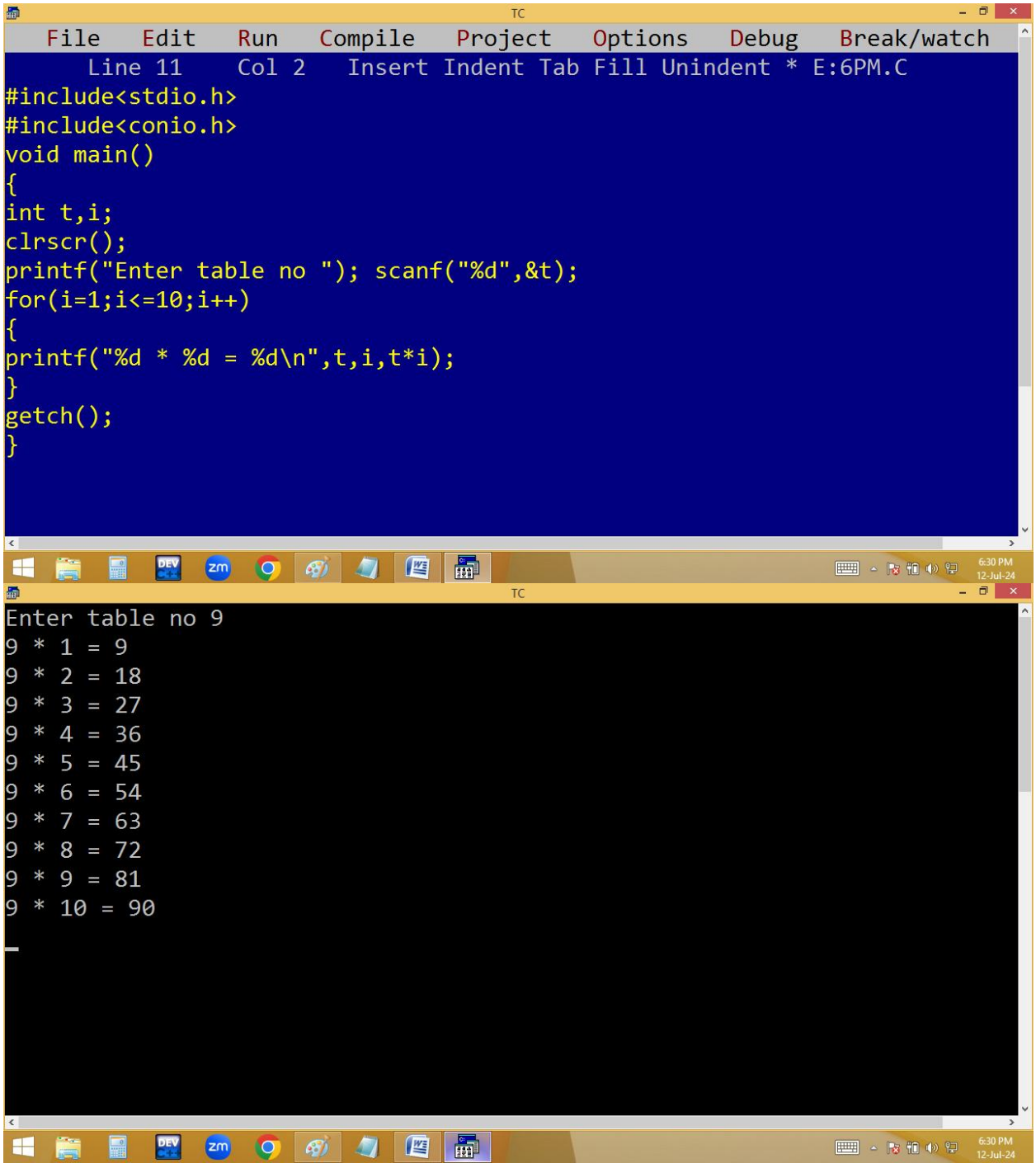
9*1=9

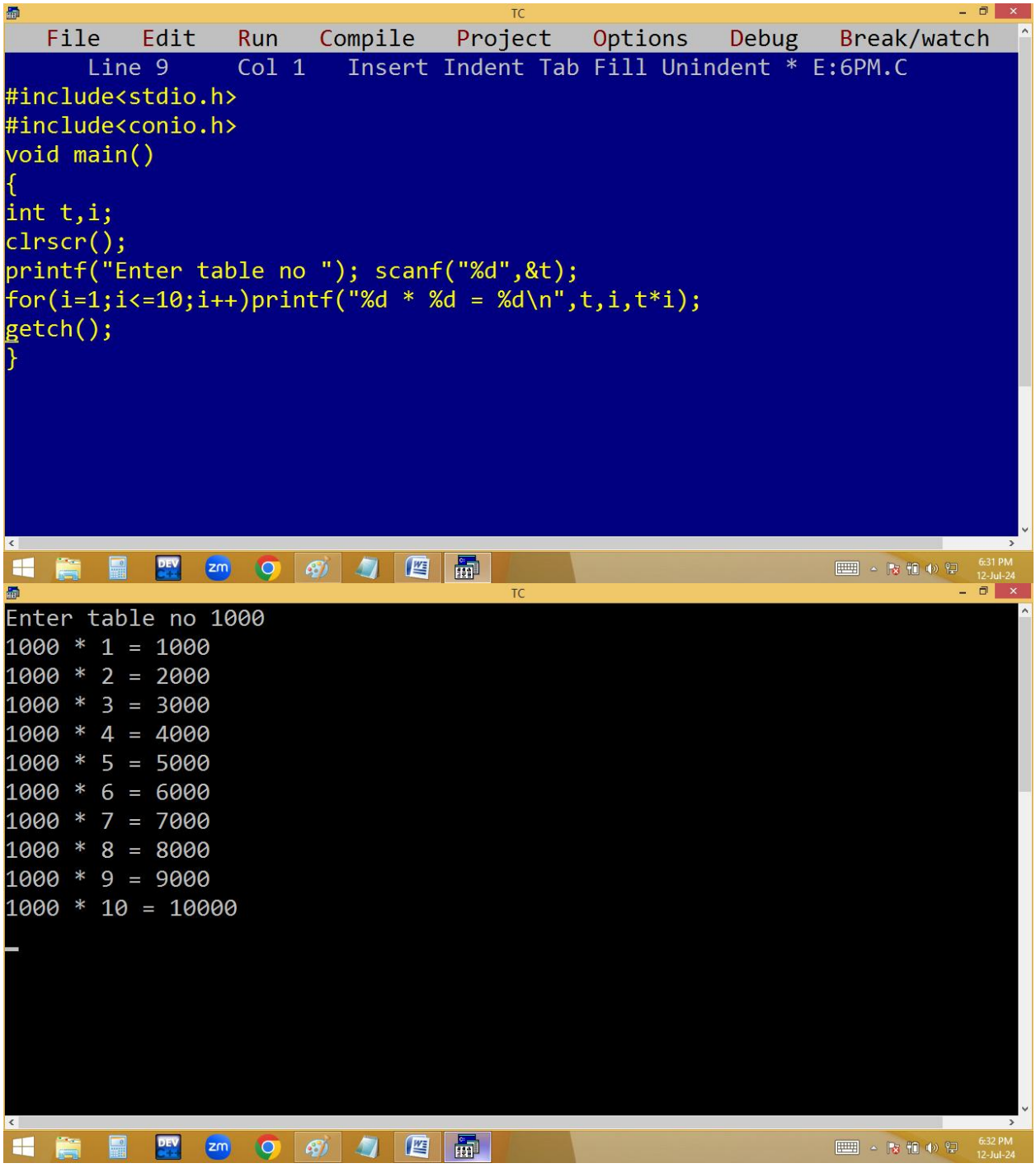
9*2=18

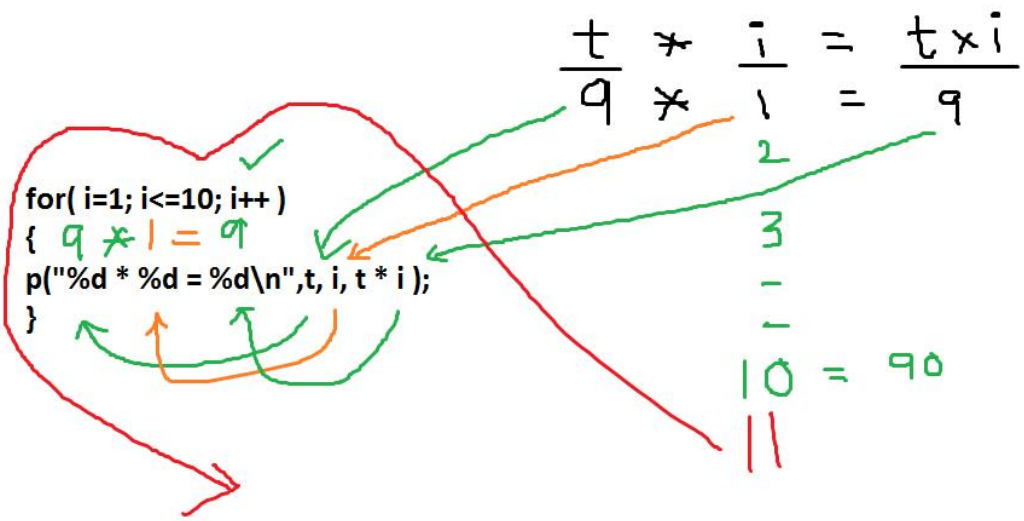
…;

…;

9*10=90


TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 2 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int t,i;
clrscr();
printf("Enter table no "); scanf("%d",&t);
for(i=1;i<=10;i++)
{
printf("%d * %d = %d\n",t,i,t*i);
}
getch();
}
TC
Enter table no 9
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90


TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 1 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int t,i;
clrscr();
printf("Enter table no "); scanf("%d",&t);
for(i=1;i<=10;i++)printf("%d * %d = %d\n",t,i,t*i);
getch();
}
6:31 PM
12-Jul-24
TC
Enter table no 1000
1000 * 1 = 1000
1000 * 2 = 2000
1000 * 3 = 3000
1000 * 4 = 4000
1000 * 5 = 5000
1000 * 6 = 6000
1000 * 7 = 7000
1000 * 8 = 8000
1000 * 9 = 9000
1000 * 10 = 10000
6:32 PM
12-Jul-24

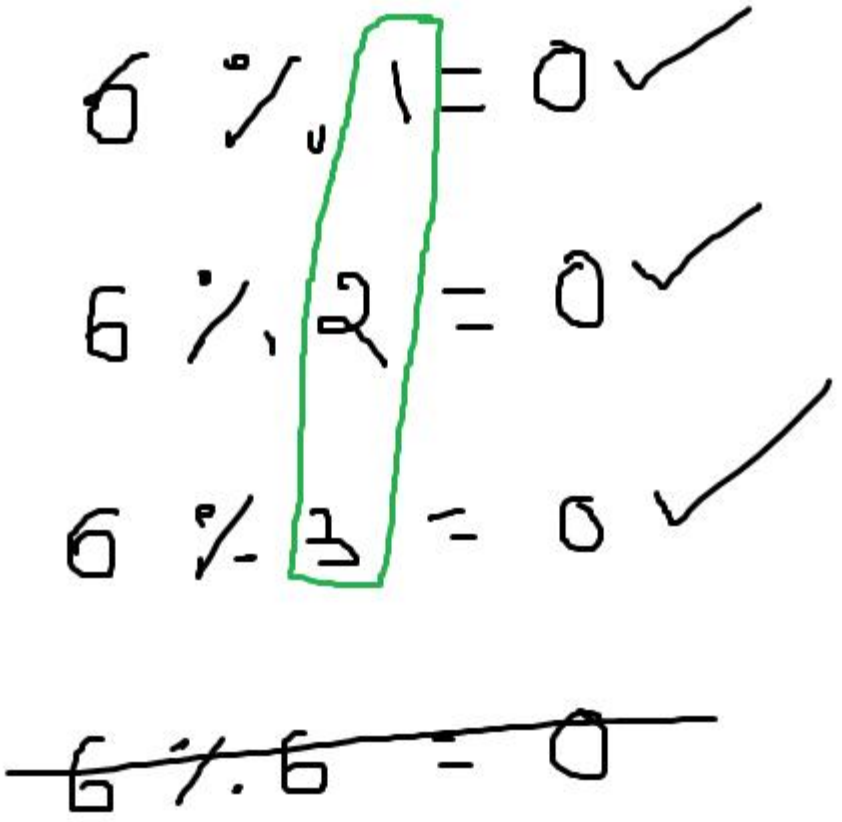


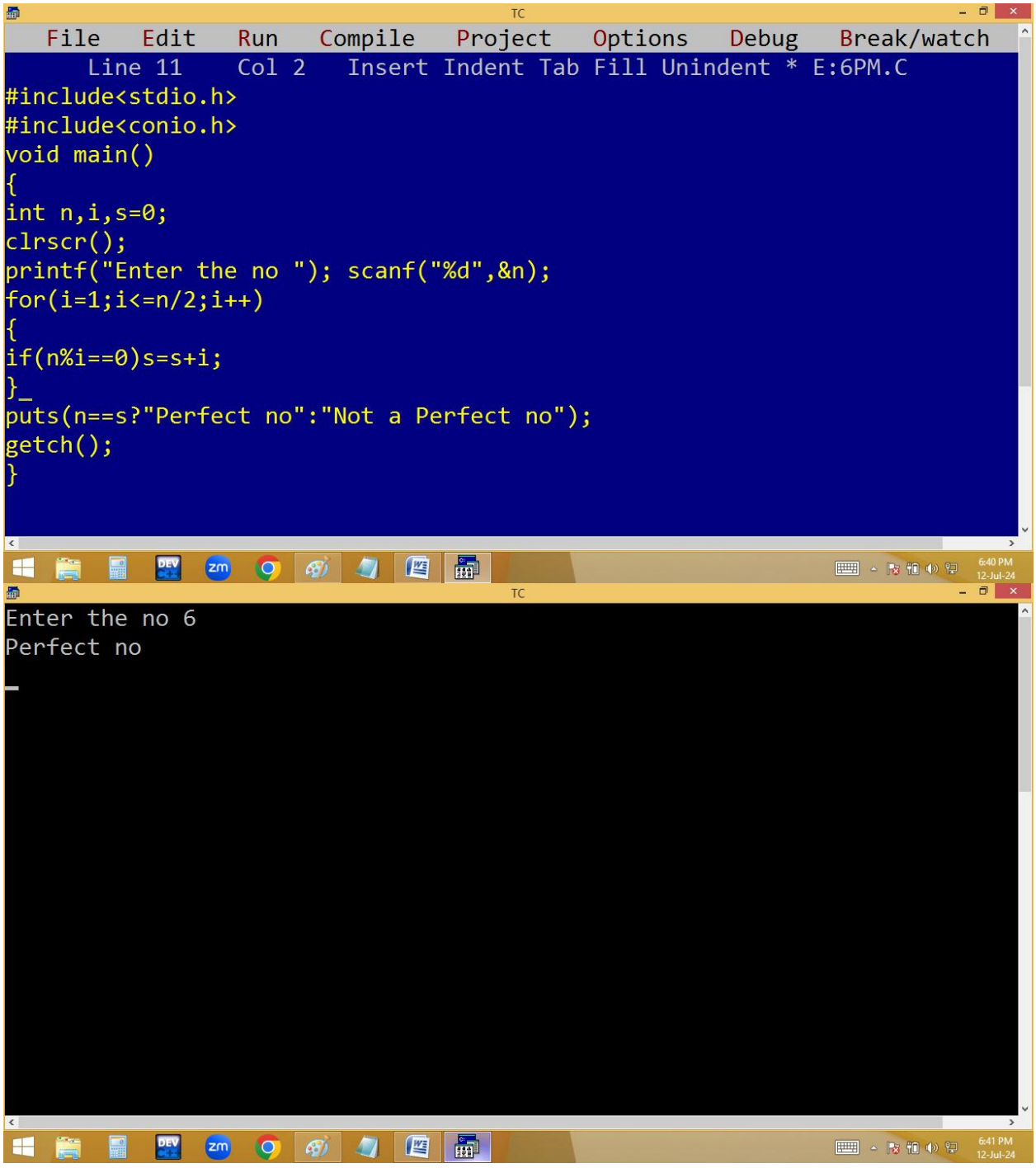
Finding perfect no or not: if factors sum is equal to given no it is a perfect no

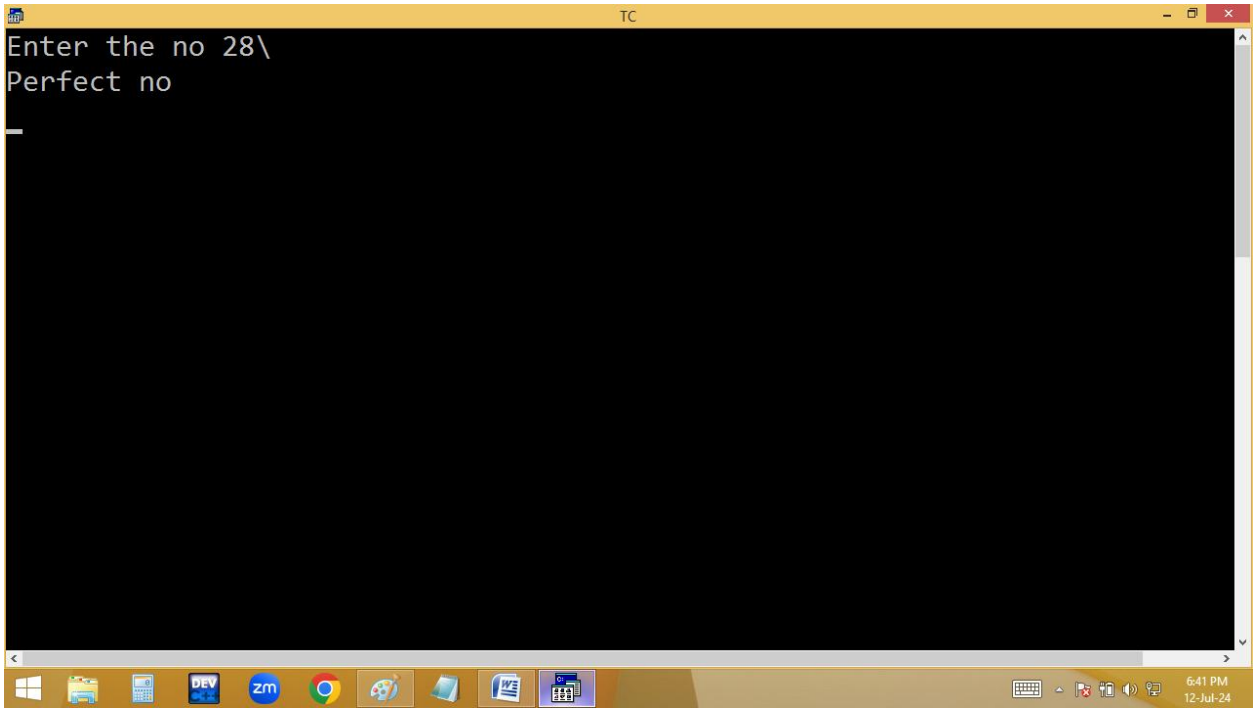
6 factors are 1 + 2 + 3 = **6**

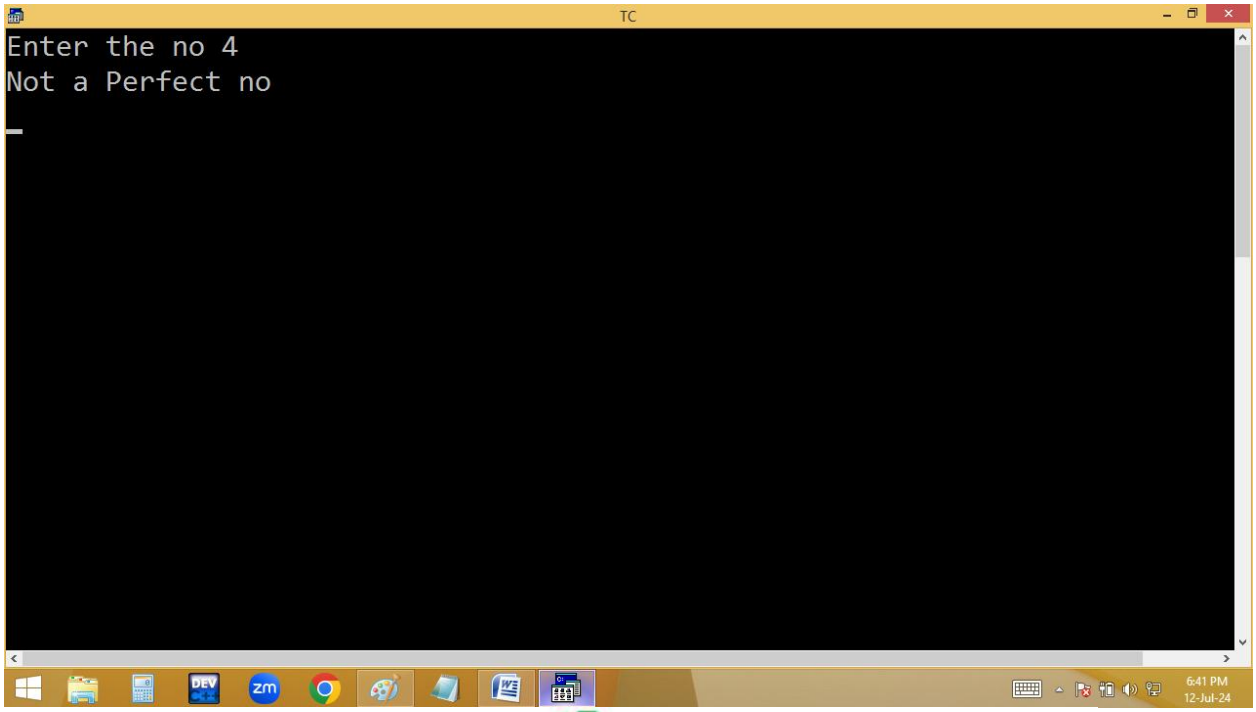
28 factors are 1 + 2 + 4 + 7 + 14 = **28**

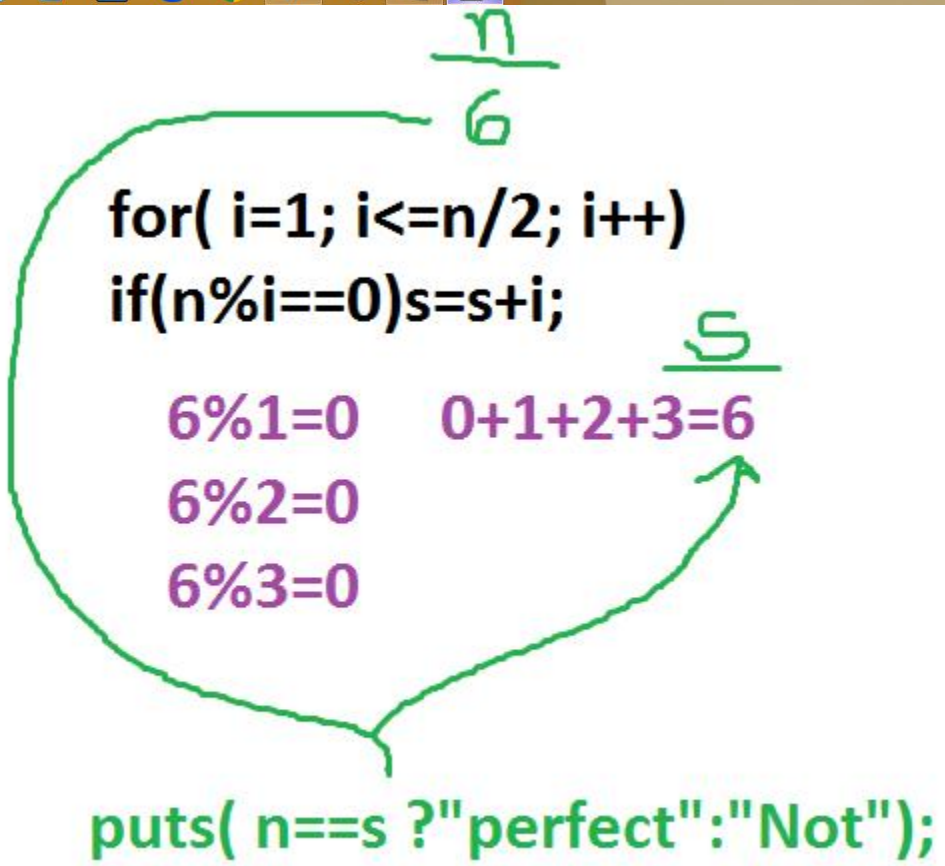
4 factors sum is 1+2 = 3 ← not a perfect no


6 % 1 = 0
6 % 2 = 0
6 % 3 = 0
6 % 6 = 0


TC
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 2 Insert Indent Tab Fill Unindent * E:6PM.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/2;i++)
{
if(n%i==0)s=s+i;
}
puts(n==s?"Perfect no":"Not a Perfect no");
getch();
}
6:40 PM
12-Jul-24
TC
Enter the no 6
Perfect no
6:41 PM
12-Jul-24


TC
Enter the no 28\
Perfect no
6:41 PM
12-Jul-24





FINDING PRIME / COMPOSITE NO:

NO DIVISIBLE WITH 1 AND ITSELF IS A PRIME

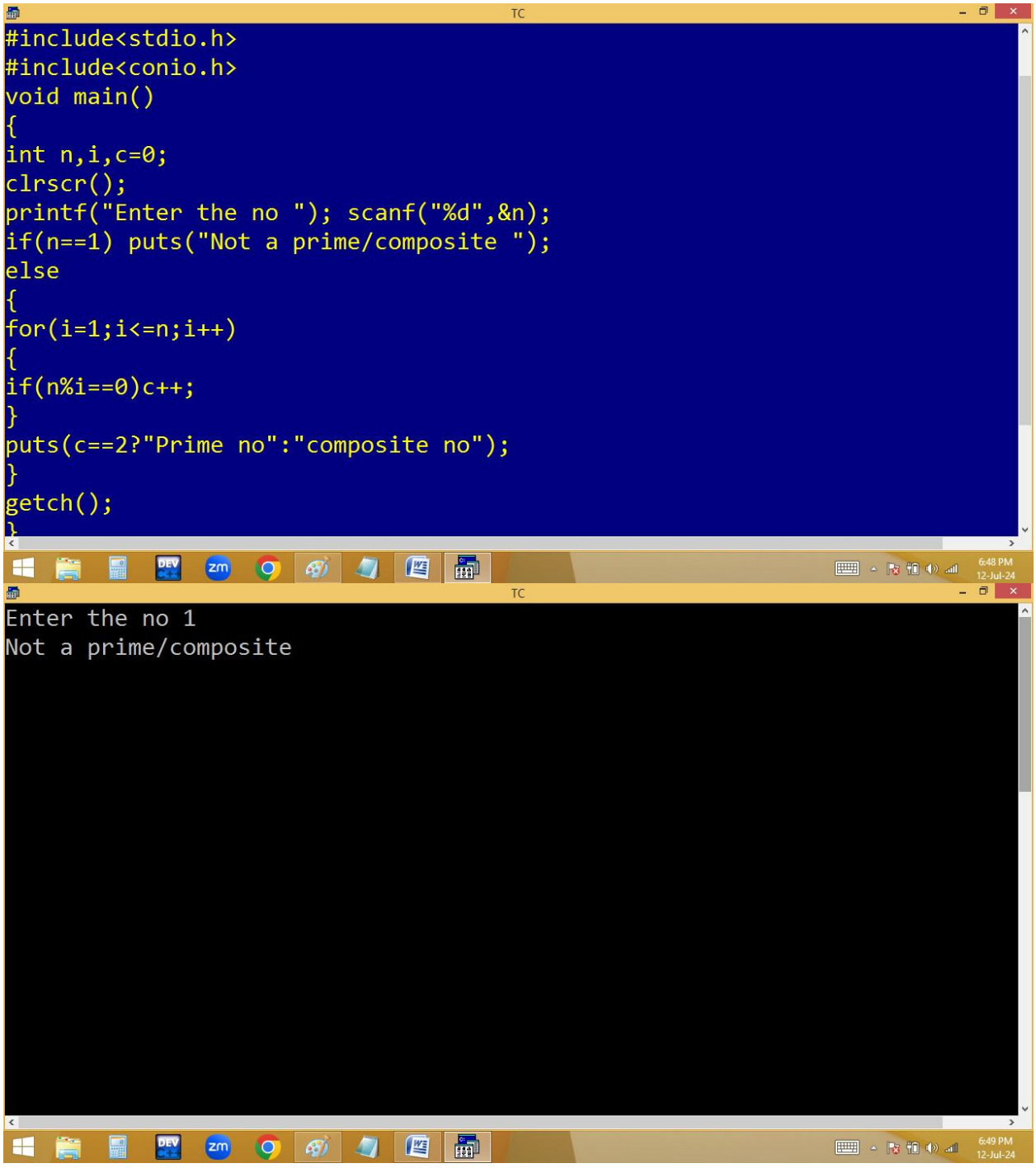
NO HAVING 2 FACTORS IS CALLED PRIME

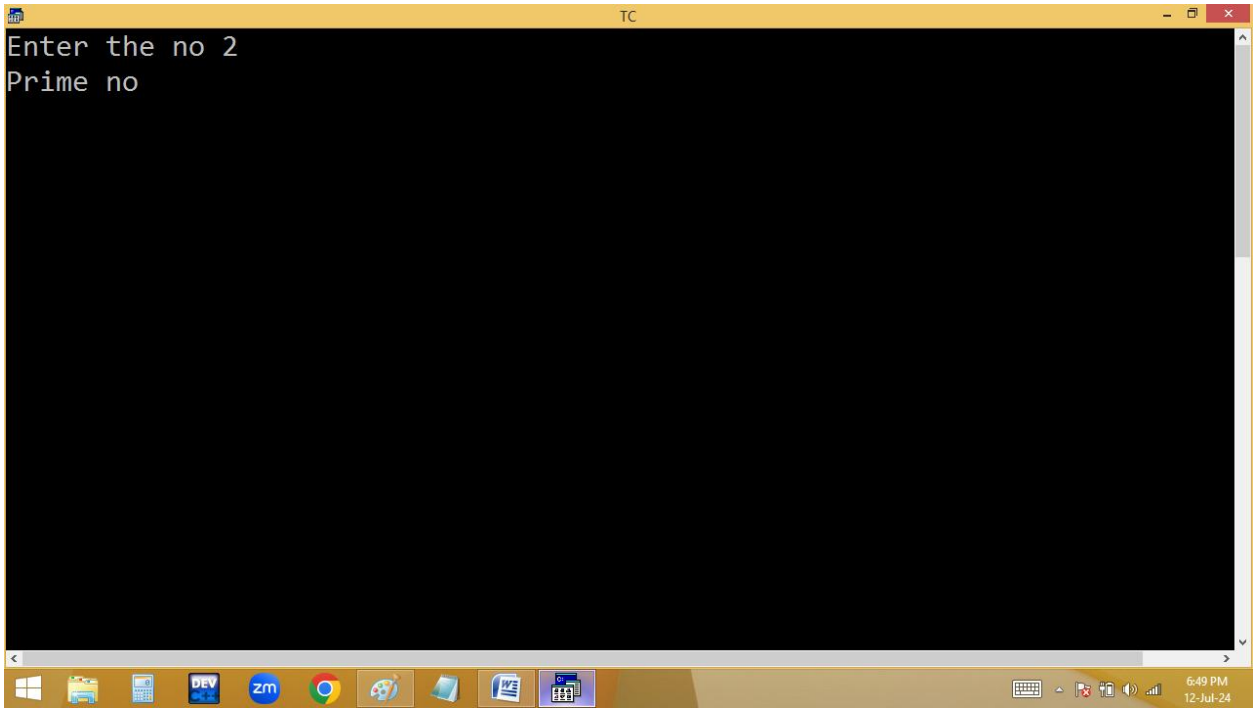
1 DIVISIBLE WITH 1 AND 1

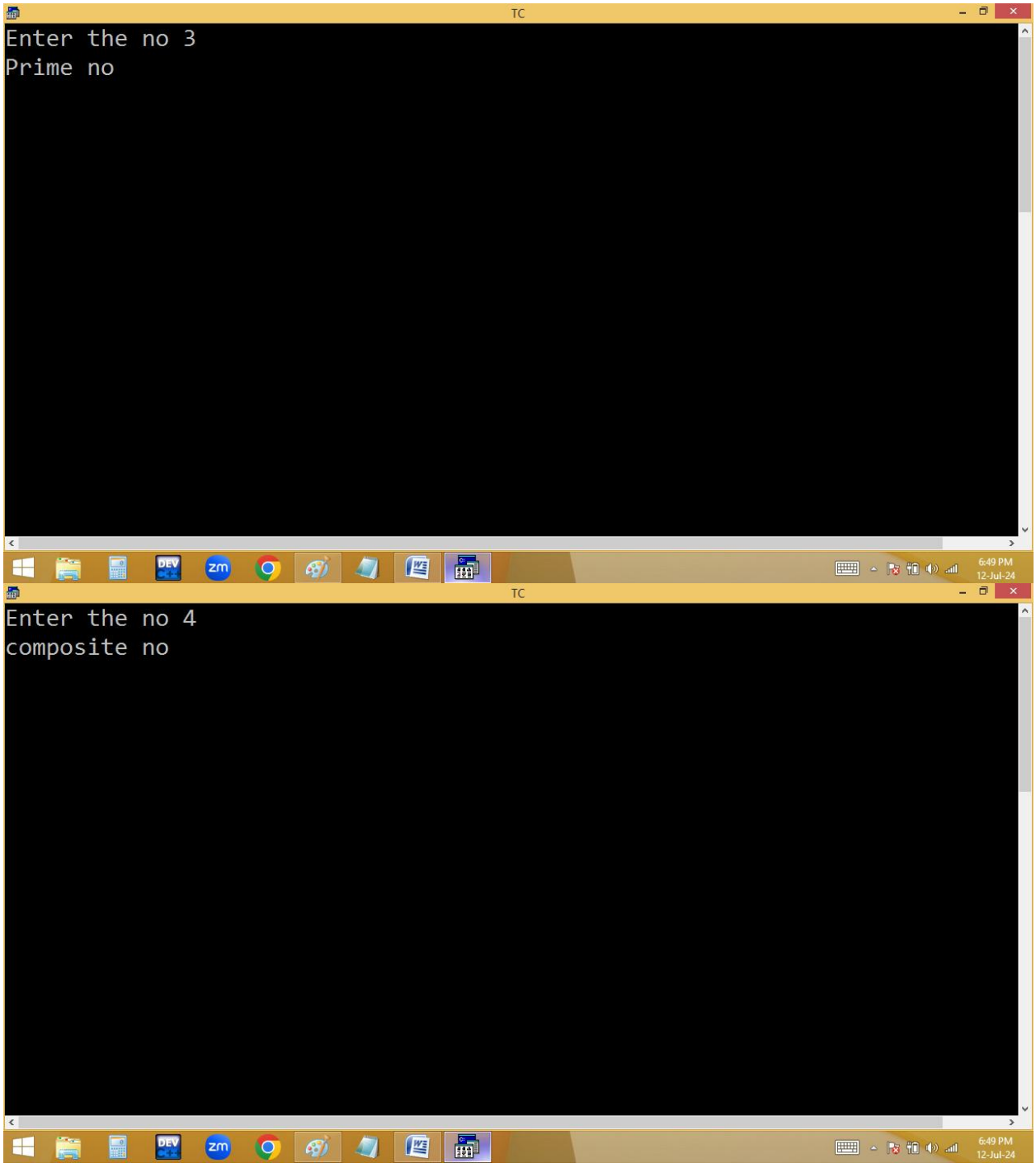
2 divisible with 1 and 2 ← prime no's

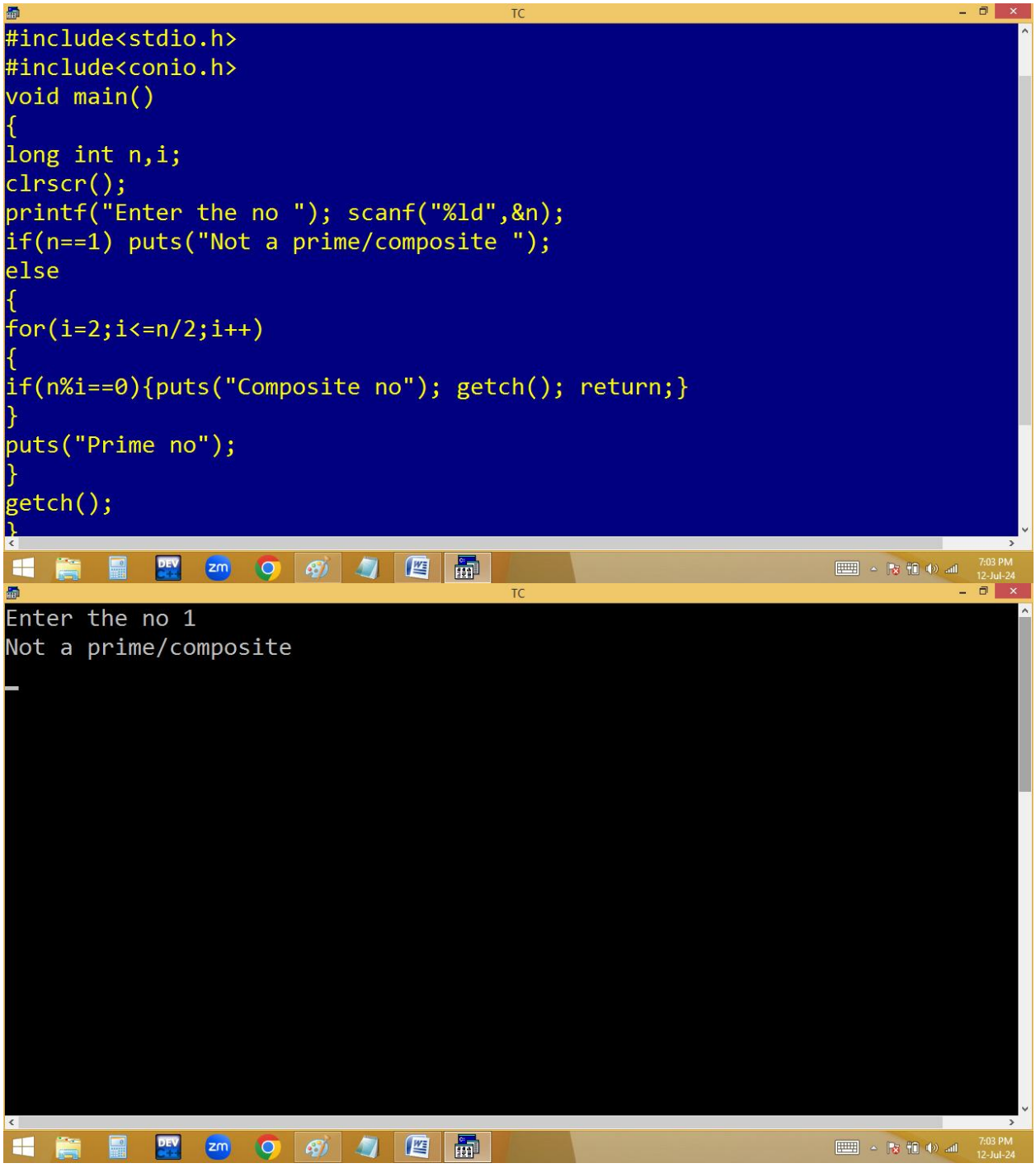
3 divisible with 1 and 3

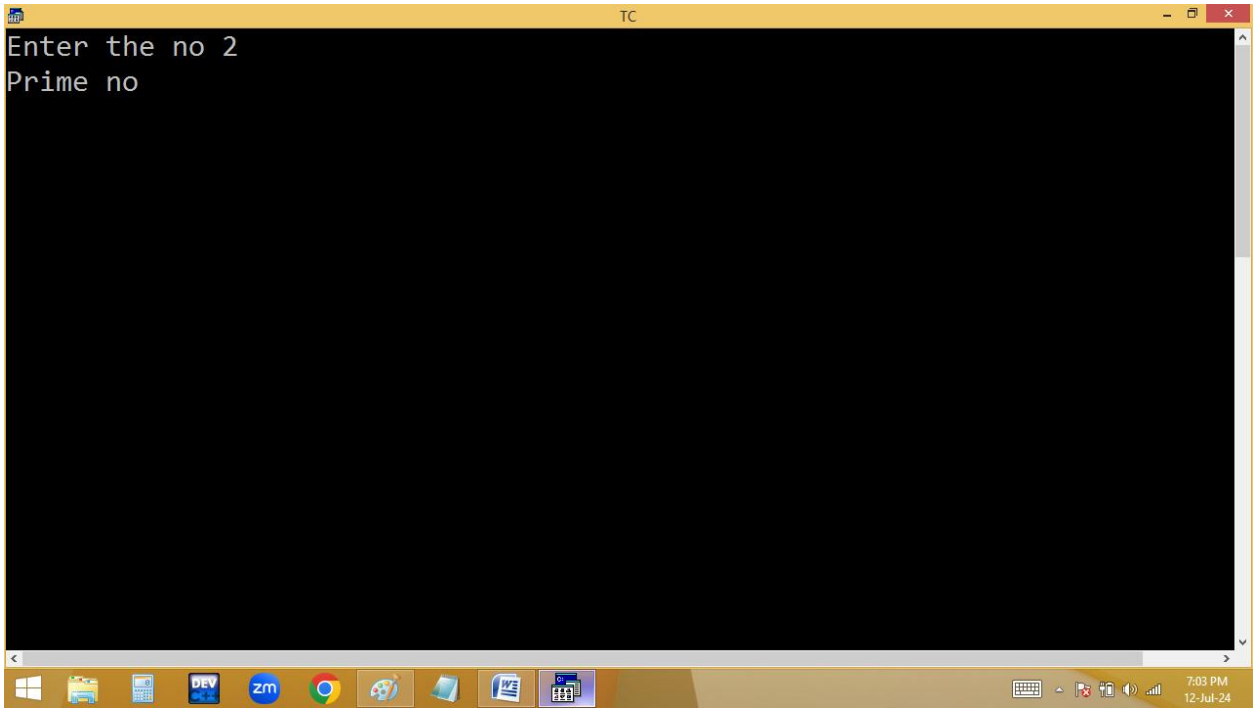
4 divisible with 1, 2, 4 ← 3factoris ← composite no

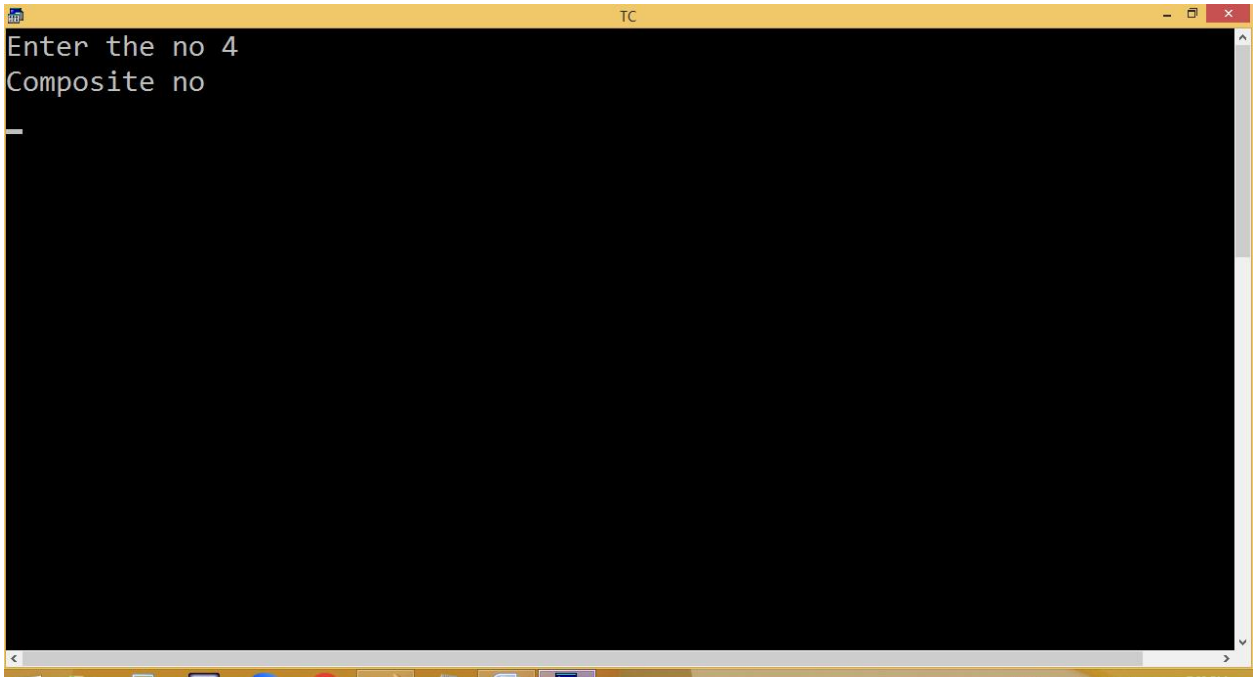

TC
#include<stdio.h>
#include<conio.h>
void main()
{
int n,i,c=0;
clrscr();
printf("Enter the no "); scanf("%d",&n);
if(n==1) puts("Not a prime/composite ");
else
{
for(i=1;i<=n;i++)
{
if(n%i==0)c++;
}
puts(c==2?"Prime no":"composite no");
}
getch();
}
6:48 PM
12-Jul-24
TC
Enter the no 1
Not a prime/composite
6:49 PM
12-Jul-24

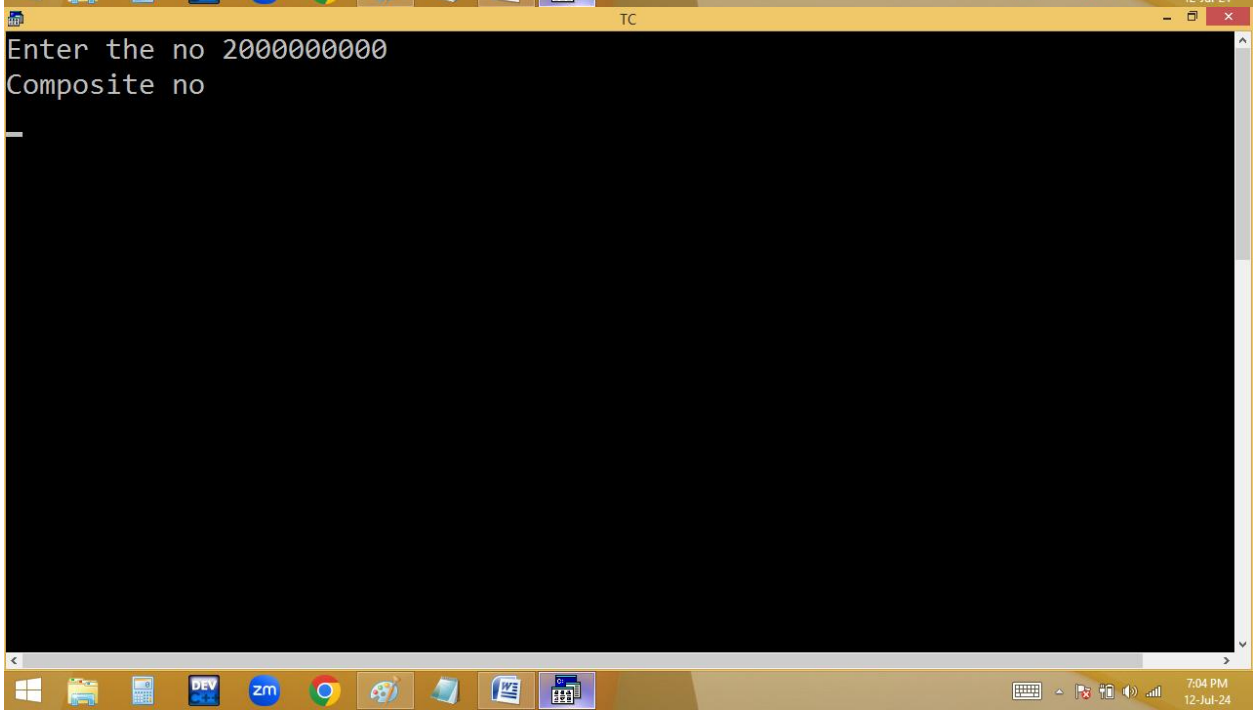

TC
Enter the no 2
Prime no
6:49 PM
12-Jul-24


TC
Enter the no 3
Prime no
TC
Enter the no 4
composite no


TC
#include<stdio.h>
#include<conio.h>
void main()
{
long int n,i;
clrscr();
printf("Enter the no "); scanf("%ld",&n);
if(n==1) puts("Not a prime/composite ");
else
{
for(i=2;i<=n/2;i++)
{
if(n%i==0){puts("Composite no"); getch(); return;}
}
puts("Prime no");
}
getch();
}
7:03 PM
12-Jul-24
TC
Enter the no 1
Not a prime/composite
7:03 PM
12-Jul-24


TC
Enter the no 2
Prime no
7:03 PM
12-Jul-24


TC
Enter the no 4
Composite no
7:03 PM
12-Jul-24


TC
Enter the no 2000000000
Composite no
7:04 PM
12-Jul-24

10 - 1 2 5 10

100 - 1 2 4 5 10 20 25 50 100

5 - 1 5

11 - ~~1~~ and ~~11~~

2 to 11/2 = 5

```
for( i=2; i<=n/2; i++)
{
if(2000000000%2==0){p(com);return;
}
```

11 % 2 = 1

11 % 3 = 2

11 % 4 = 3

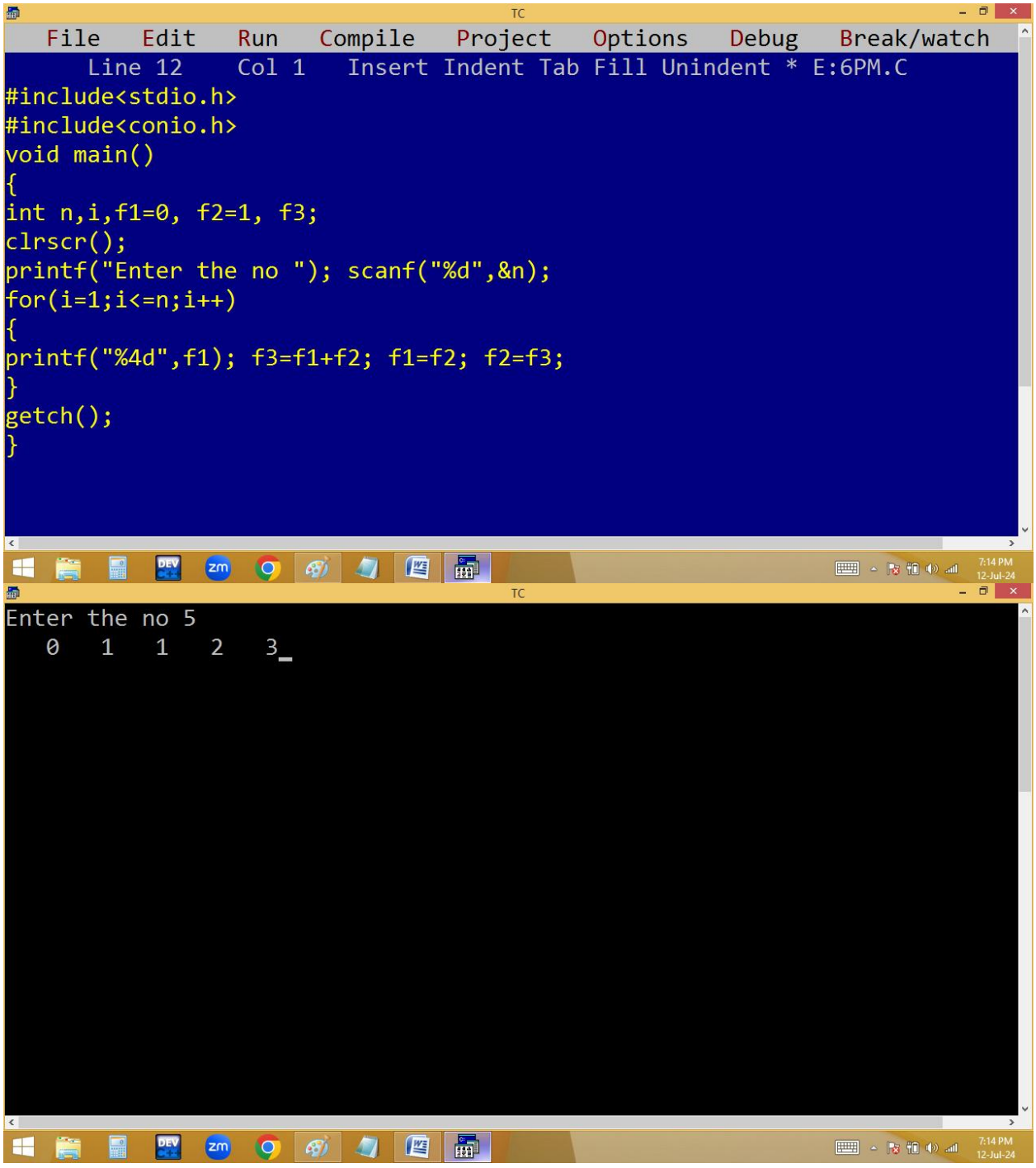
11 % 5 = 1

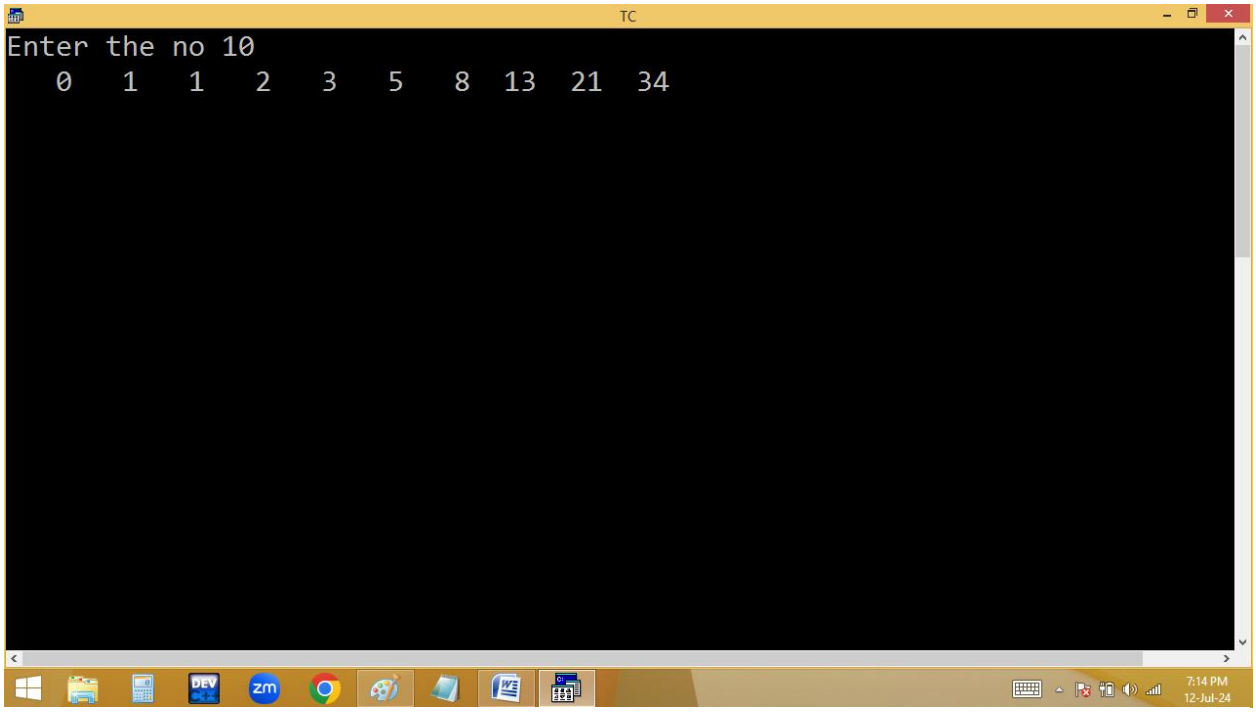
6

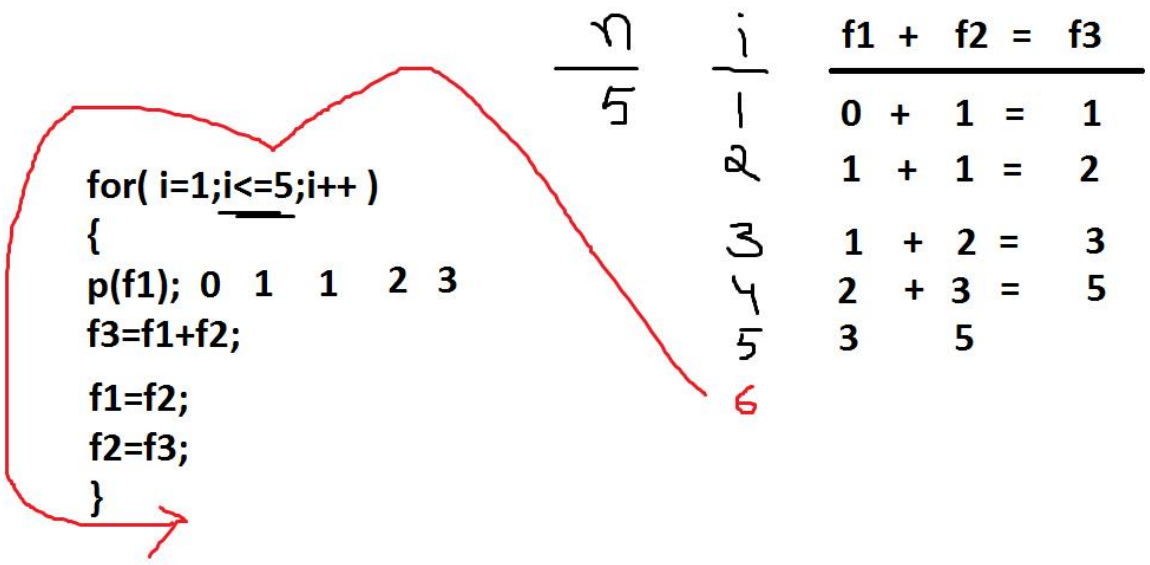
```
p(prime);
```

FIBONACCI SERIES:

5 FIBONACCI SERIES IS 0 1 1 2 3


TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 1 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int n,i,f1=0, f2=1, f3;
clrscr();
printf("Enter the no "); scanf("%d",&n);
for(i=1;i<=n;i++)
{
printf("%4d",f1); f3=f1+f2; f1=f2; f2=f3;
}
getch();
}
TC
Enter the no 5
0 1 1 2 3





ARMSTRONG NO:

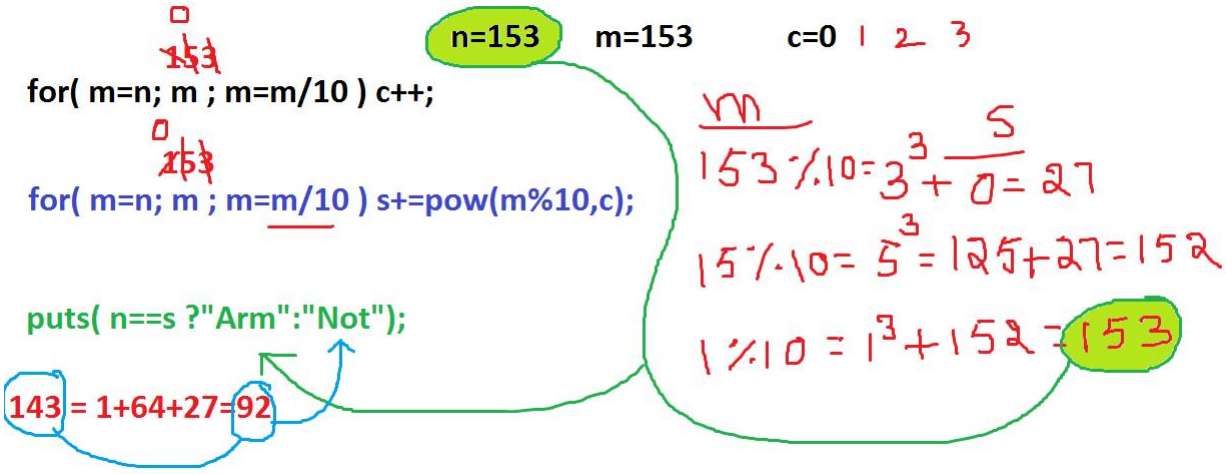
1 is a single digit no ➔ $1^1 = 1$

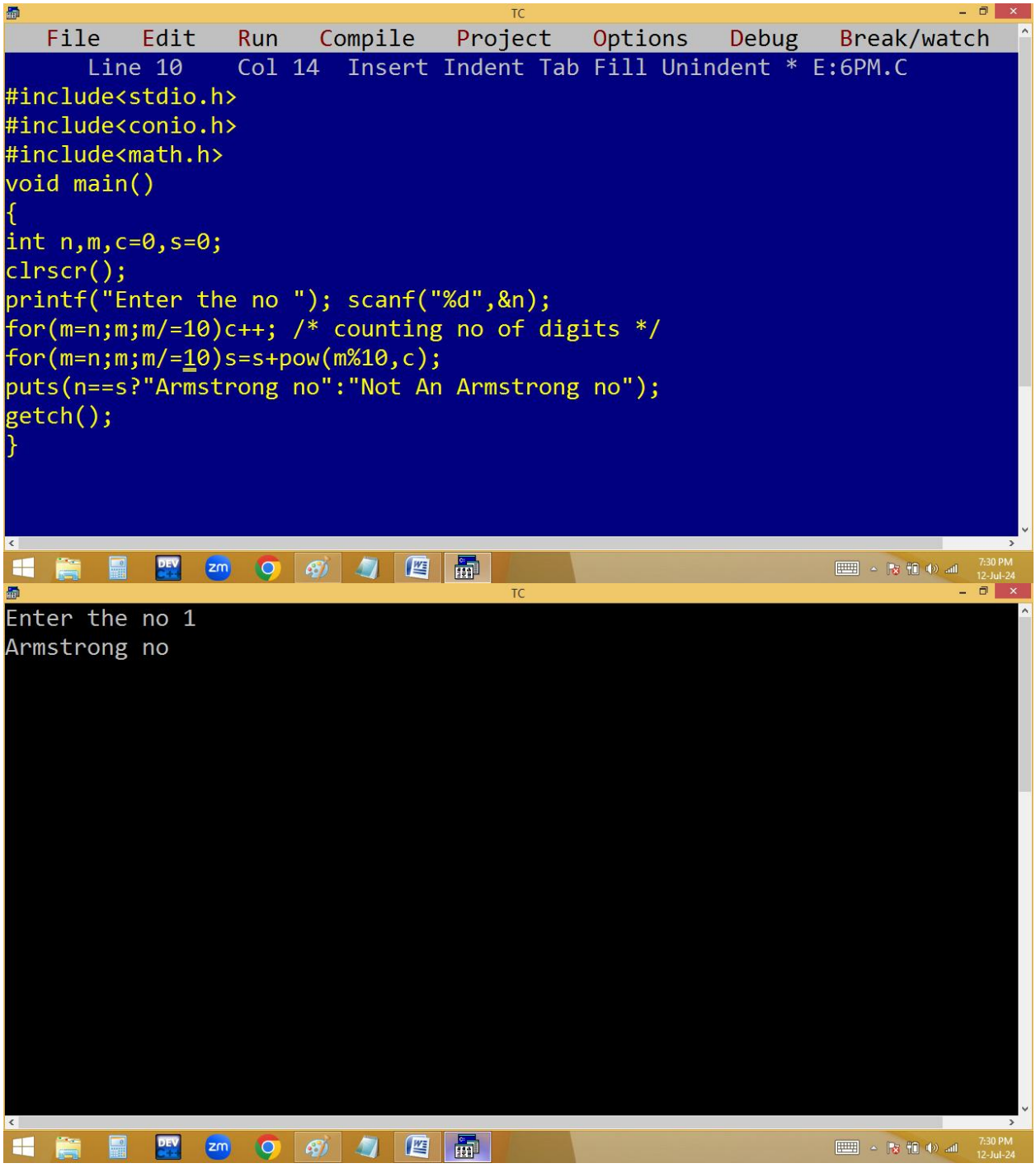
9 is a single digit no ➔ $9^1 = 9$

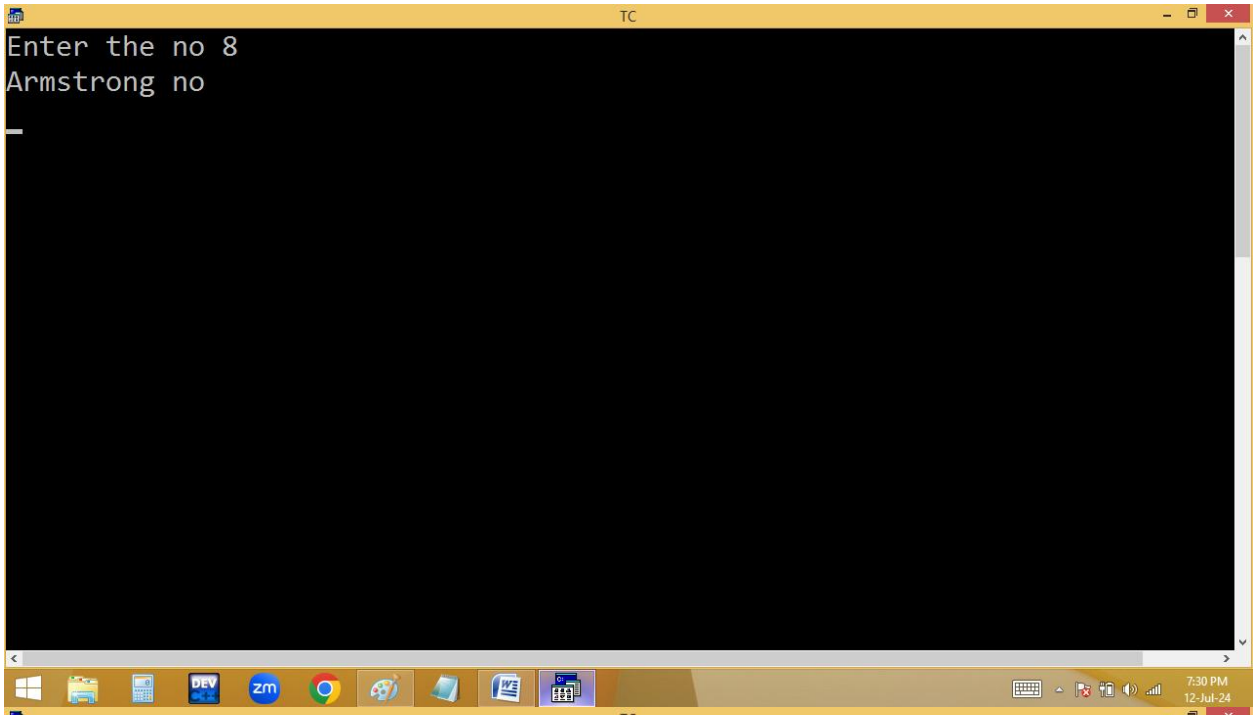
153 is a 3 digit no ➔ $1^3+5^3+3^3 = 1+125+27=153$

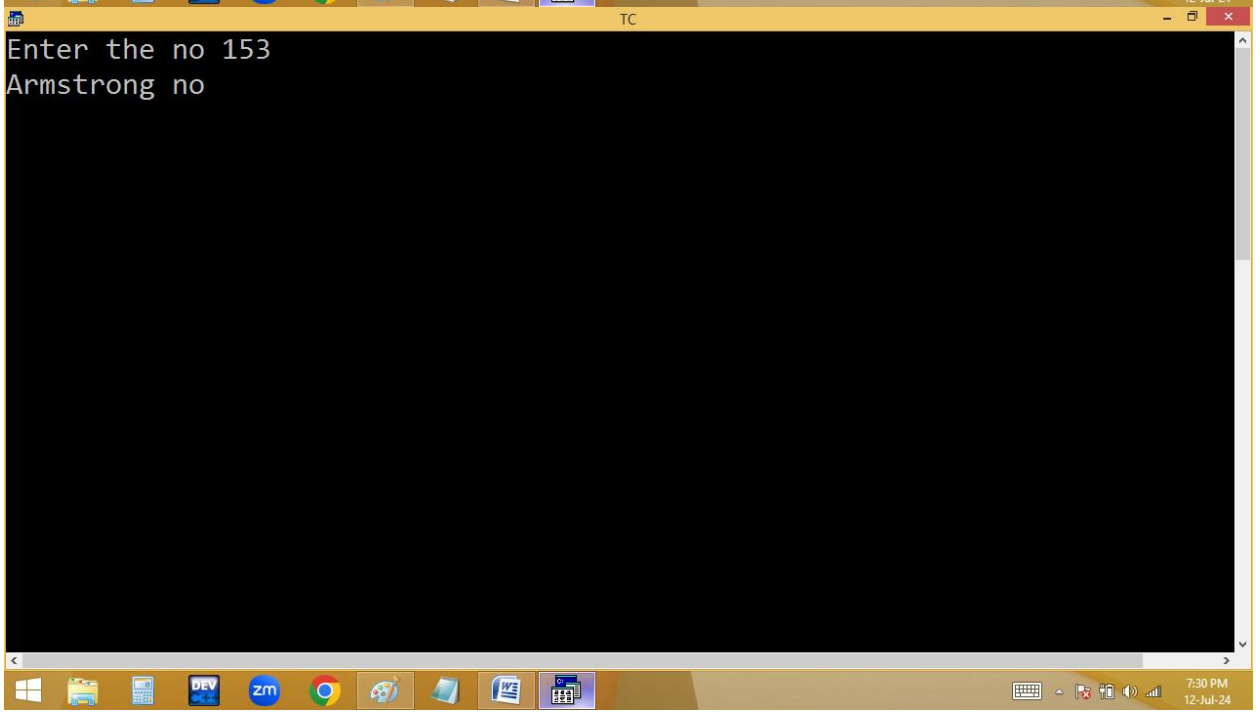
370, 371, 407, 1634, 8208,…..

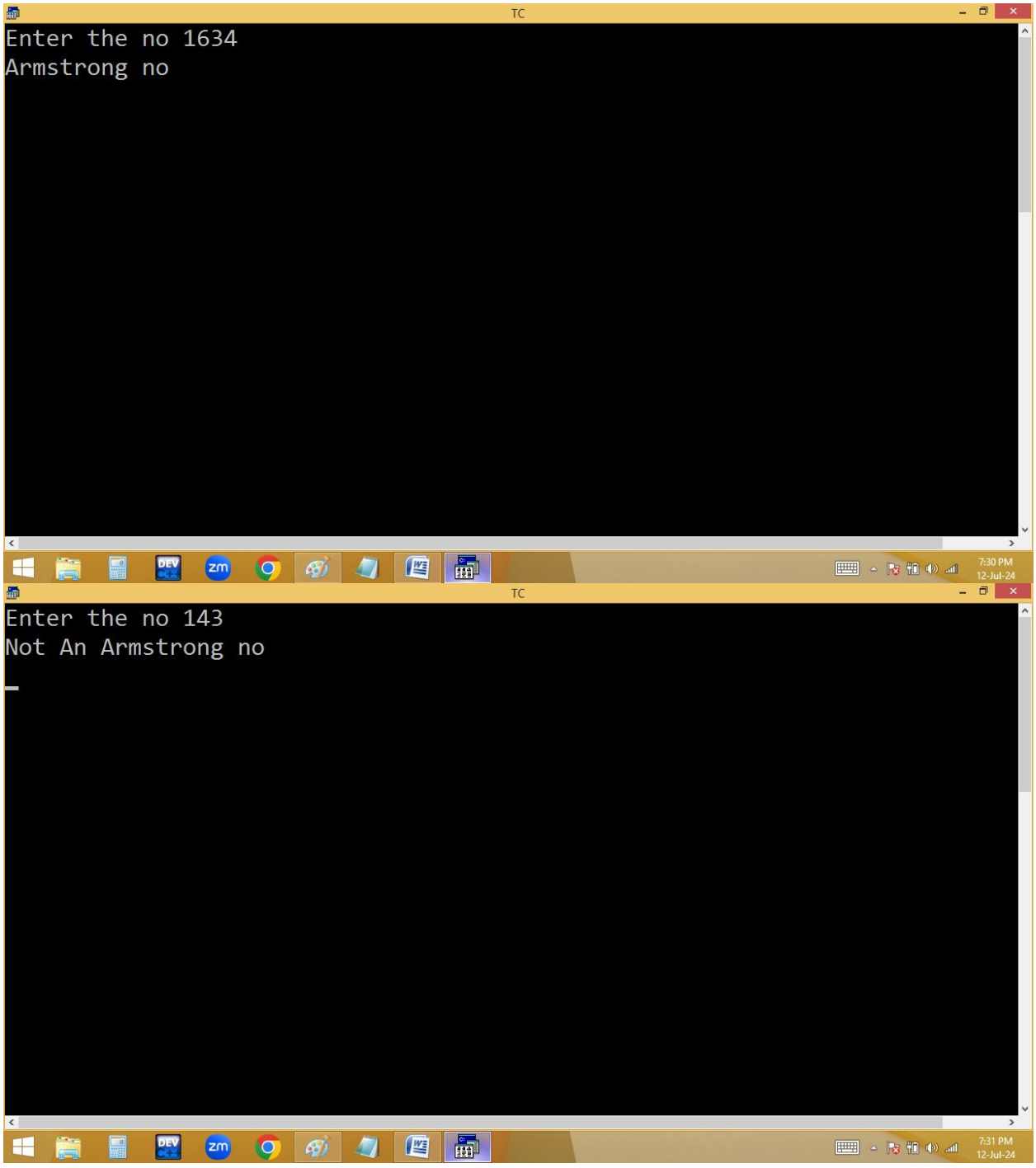
1634 is a 4 digit no ➔ $1^4 + 6^4 + 3^4 + 4^4 = 1634$




TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 14 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
int n,m,c=0,s=0;
clrscr();
printf("Enter the no "); scanf("%d",&n);
for(m=n;m;m/=10)c++; /* counting no of digits */
for(m=n;m;m/=10)s=s+pow(m%10,c);
puts(n==s?"Armstrong no":"Not An Armstrong no");
getch();
}
TC
Enter the no 1
Armstrong no


TC
Enter the no 8
Armstrong no
7:30 PM
12-Jul-24


TC
Enter the no 153
Armstrong no
7:30 PM
12-Jul-24



13 prime

13 reverse 31 also prime ← twisted prime