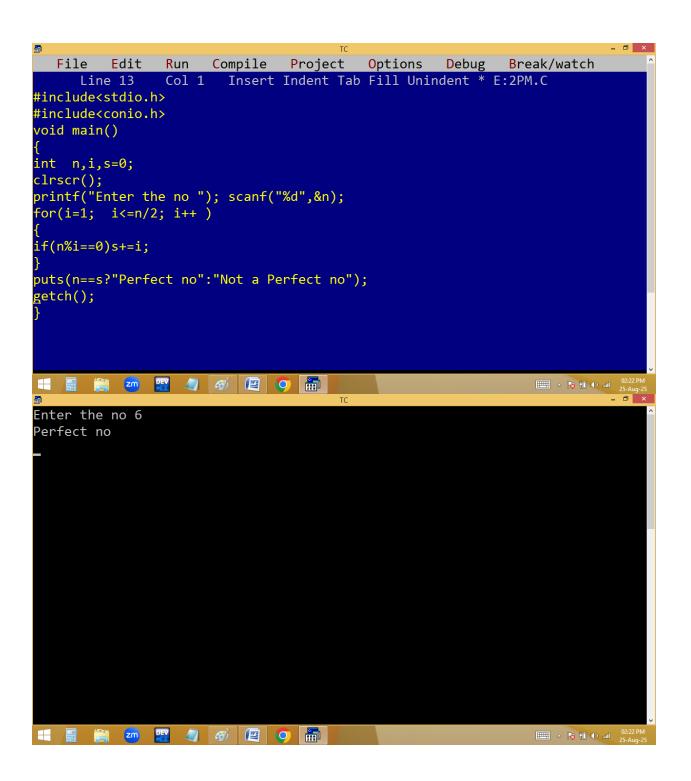
Finding perfect no or not?

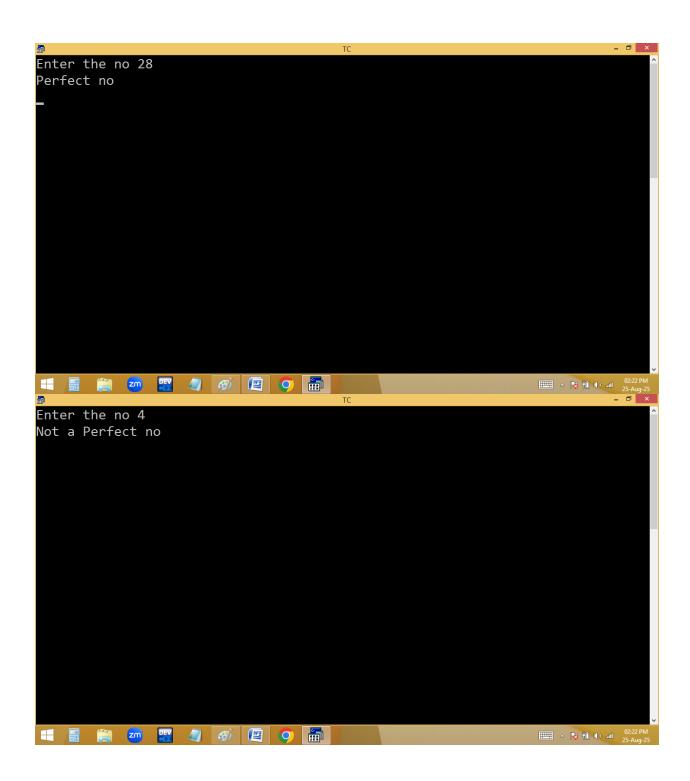
Sum of factors is equal to given no

6 factors sum is 1+2+3=6

28 factors sum is 1+2+4+7+14=28

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





Finding prime/ composite no?

When a no is having only 2 factors then it is a prime

Or

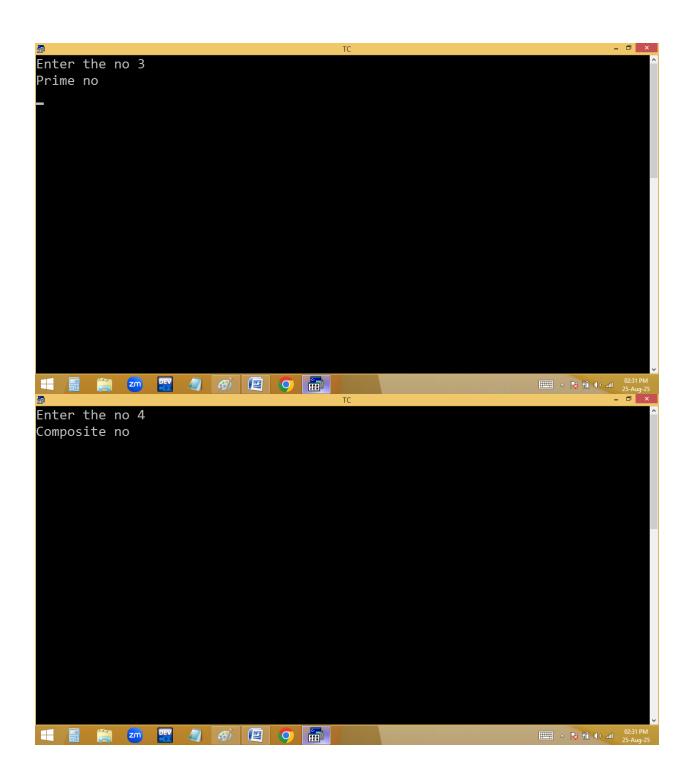
The no divisible with 1 and itself only is a prime.

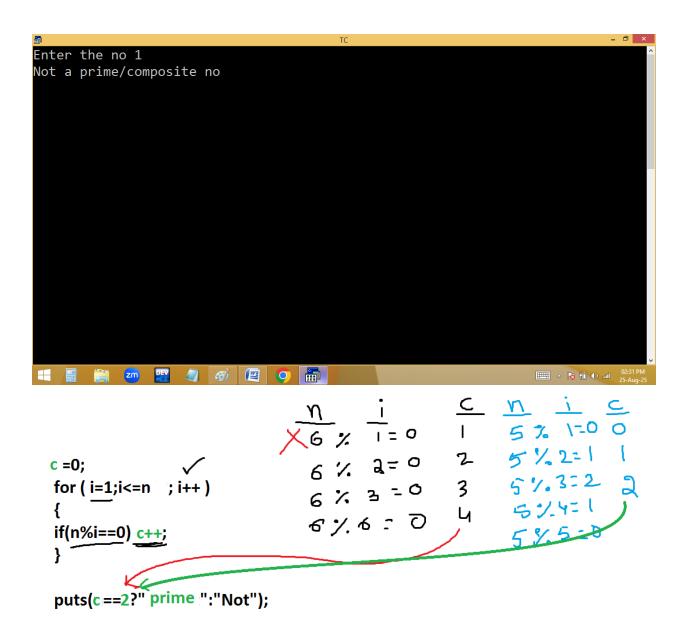
2 factors are 1, 2

3 factors are 1, 3

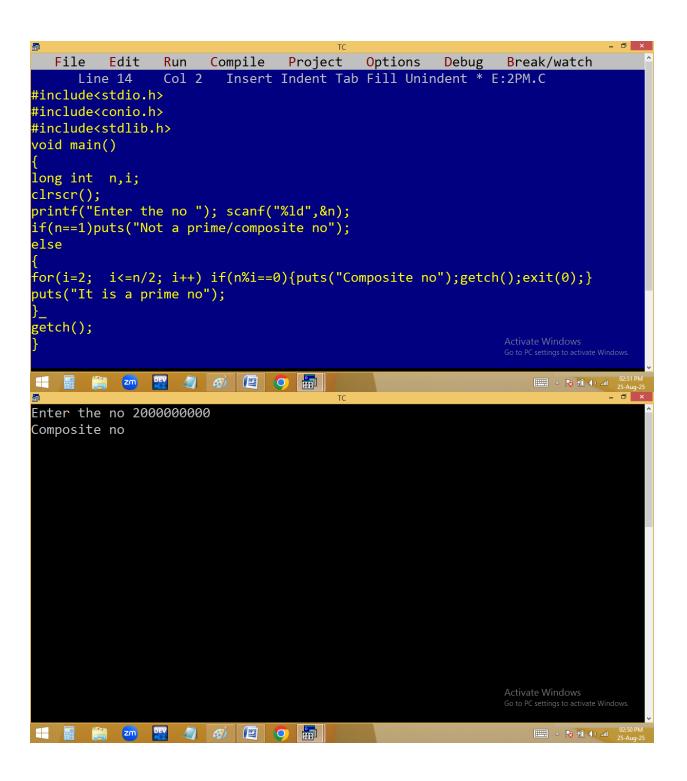
4 factors are 1, 2, 4 ← composite no

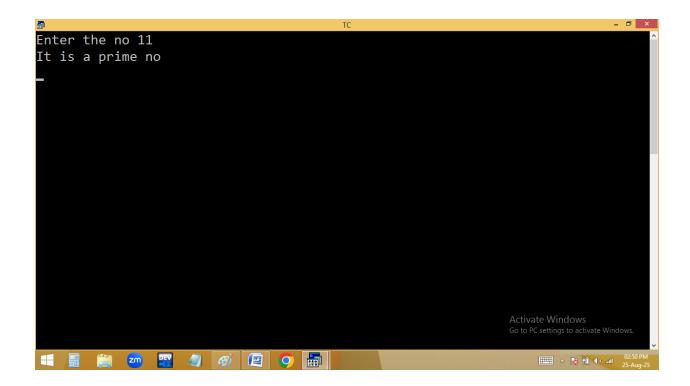
```
Line 18
                                                                                                 Col 32 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
int n,i,c=0;
clrscr();
printf("Enter the no "); scanf("%d",&n);
if(n==1)puts("Not a prime/composite no");
else
for(i=1; i<=n; i++ )
if(n%i==0)c++;
puts(c==2?"Prime no":"Composite no");
getch();
Enter the no 2
Prime no
   Δ (2:31 PM object) Δ (3:31 PM
```

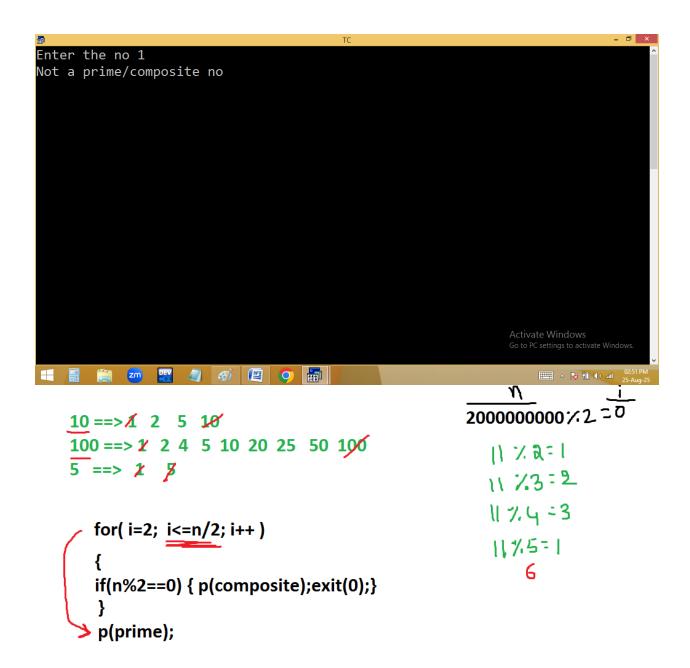




Method2:

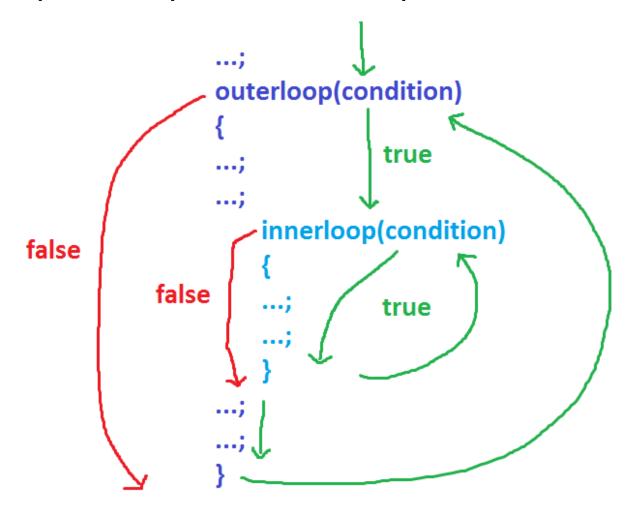






Nested loops:

Loop within loop is called nested loop.



Printing 1...n tables?

Print 1..3 tables

```
_ 🗇 ×
                                 TC
                                  Options
  File Edit Run Compile Project
                                           Debug Break/watch
     Line 15
              Col 2 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
int n,t,i;
clrscr();
for(t=1;t<=n;t++)
for(i=1;i<=10;i++)
printf("%d*%d=%d\n",t,i,t*i);
getch();
                                                              Activate \( \lambda
                                                              Go to PC setti
           zm
```

```
_ 🗇 🗙
Enter how many tables 2
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
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 \
                                                                     Go to PC setti
           zm 🔛 🥒 🧭 떌 🧿 📰
    for( t=1; t<=3; t++ )
    for( i=1; i<=10; i++ )
                                                  * 3 times = 30 times
                                      10 times
    p(t*i);
```

Side by side:

```
_ 🗇 ×
#include<stdio.h>
#include<conio.h>
void main()
int n,t,i;
clrscr();
printf("Enter how many tables "); scanf("%d",&n);
for(i=1;i<=10;i++)
for(t=1;t<=n;t++)
printf("%d*%d=%d\t",t,i,t*i);
printf("\n");
getch();
□□□□ △ 😿 🗓 (v) and 03:
Enter how many 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
□□□□□ △ 🔯 🛍 (♦) and 25-Δug-
```

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

$$\frac{\gamma}{3} \frac{t}{1234x1}$$

$$1234x1$$

$$1234x2$$

$$\frac{3}{5}$$

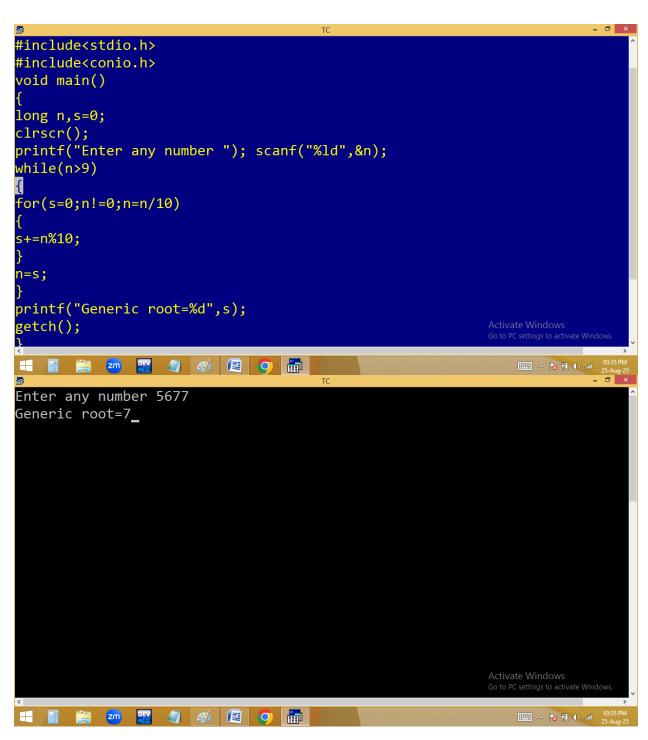
$$123410$$

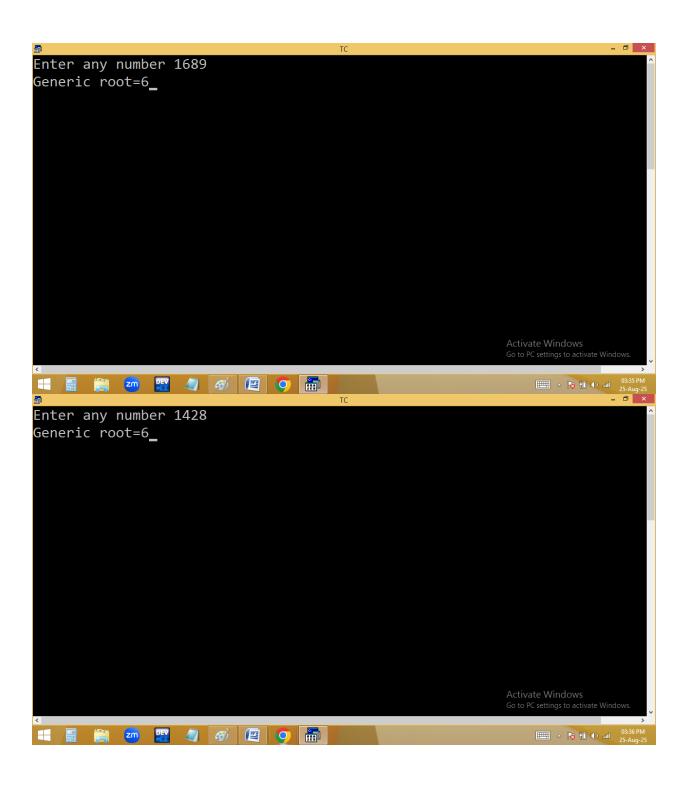
$$1x1=1-2x1=2-3x1=3$$

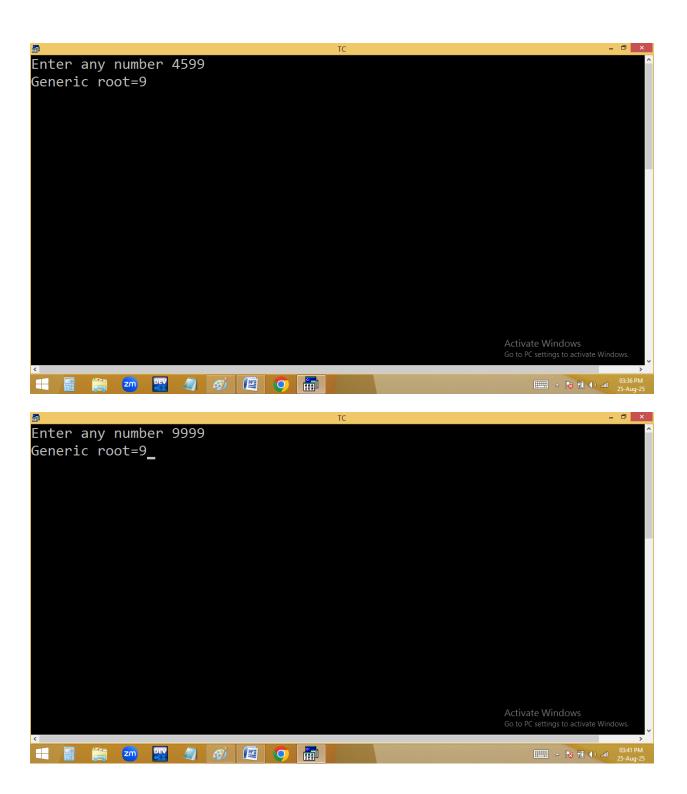
$$1x2=1-2x1=4-3x2=6$$

```
_ 🗇 ×
      Line 17 Col 10 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
int n,t,i;
clrscr();
printf("Enter how many tables "); scanf("%d",&n);
for(t=1;t<=n;t++)
for(i=1;i<=10;i++)
printf("%4d",t*i);
printf("\n");
getch();
△ 😿 🕆 🕽 (1) and 03:2
Enter how many tables 10
   1
       2
           3
              4
                  5
                      6
                              8
                                  9
                                     10
      4
   2
          6
              8
                 10
                     12
                         14
                             16
                                 18
                                     20
   3
      6
          9
             12
                 15
                     18
                         21
                             24
                                 27
                                     30
   4
      8
         12
             16
                     24
                         28
                             32
                                 36
                 20
                                     40
   5
      10
          15
             20
                 25
                     30
                         35
                             40
                                 45
                                     50
                                 54
  6
     12
         18
             24
                 30
                     36
                         42
                             48
                                     60
   7
             28
                 35
                     42
                         49
                             56
                                 63
                                     70
     14
          21
  8
             32
                     48
                         56
                             64
                                     80
     16
          24
                 40
                                 72
  9
          27
             36
                 45
                     54
                         63
                             72
                                 81
      18
                                     90
  10
     20
          30
             40
                 50
                     60
                         70
                             80
                                 90 100
□□□□□ △ 🔯 🗓 (I)> ...id 03:20 PI
```

Finding generic root of given no?







Finding magic no or not? If the generic root is 1 it is a magic no

