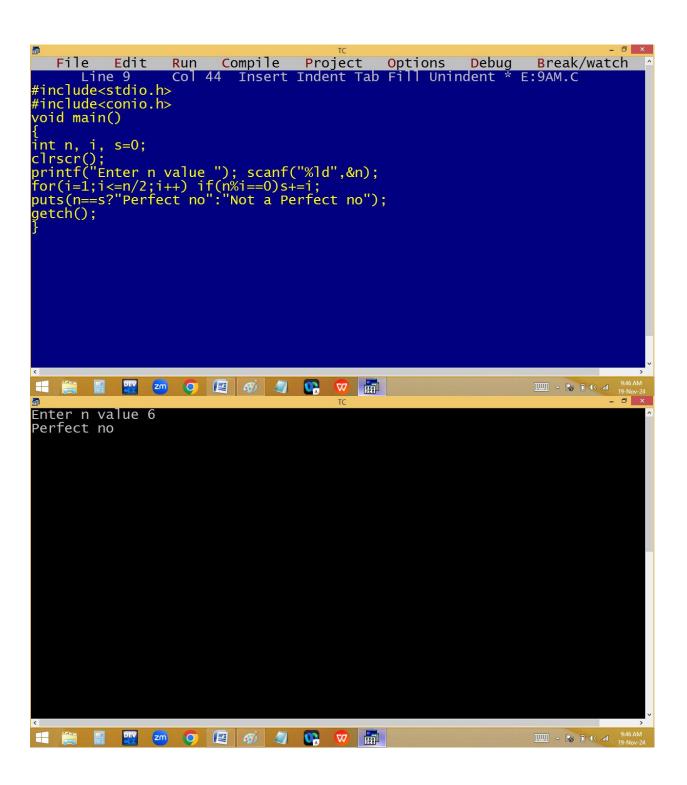
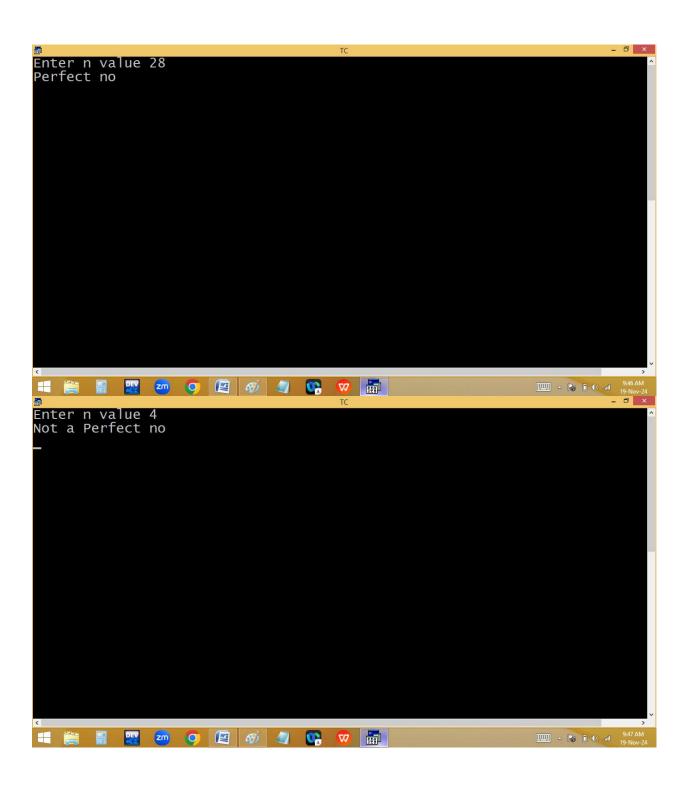
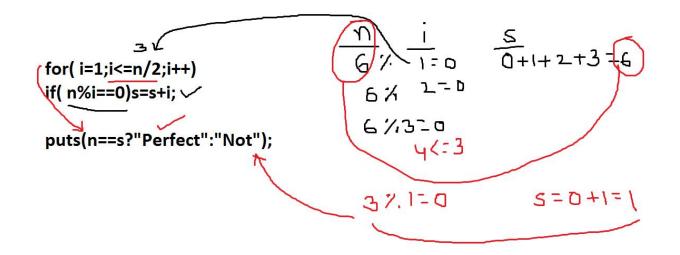


12345678 ==> 78 56 34 12

Finding perfect no: sum of factors is equal to given no.

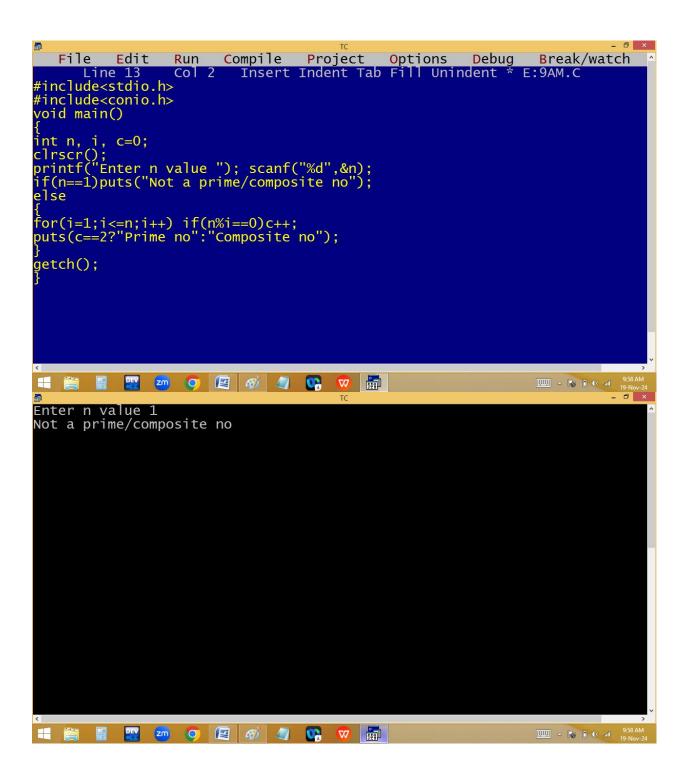


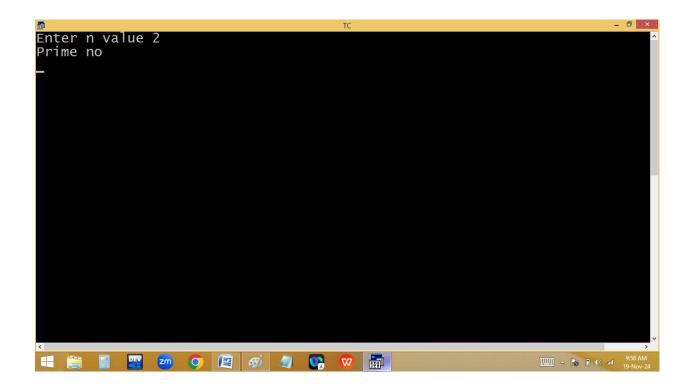


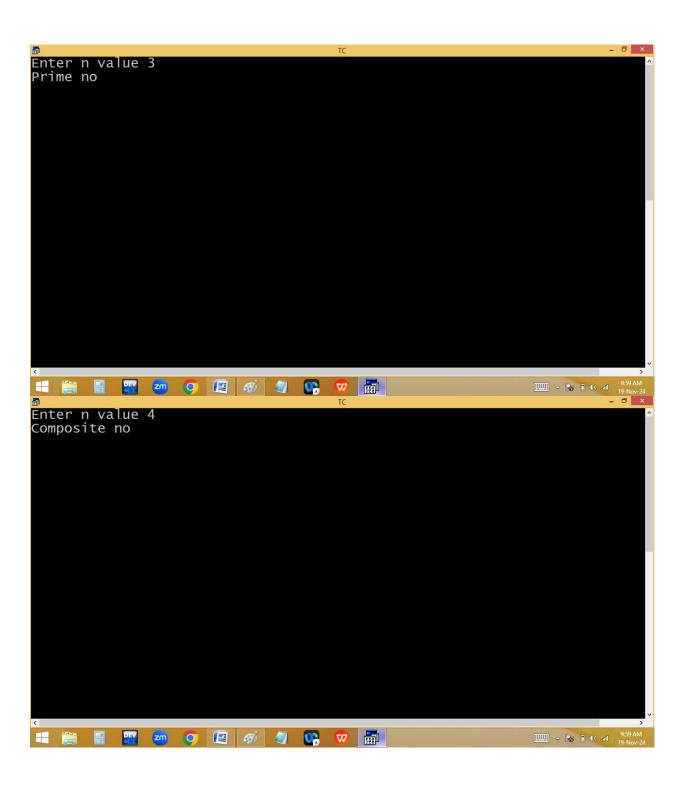


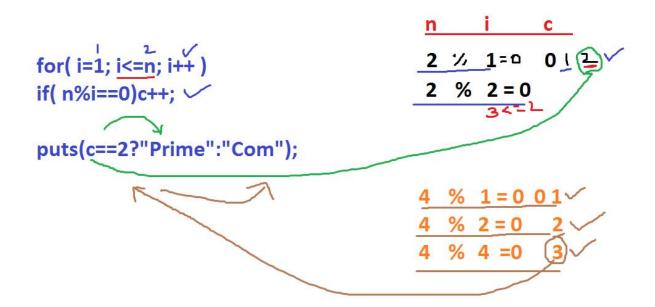
Finding prime/composite no: When a no is having 2 factors it is a prime / the no divisible with 1 and itself is called prime.

- 2 factors are 1 and 2 -> 2 factors prime
- 3 factors are 1 and 3 → 2 factors ← prime
- 4 factors are 1, 2, 4 → 3 factors ← composite no
- 1 divisible with 1 and itself also → not a prime/composite no

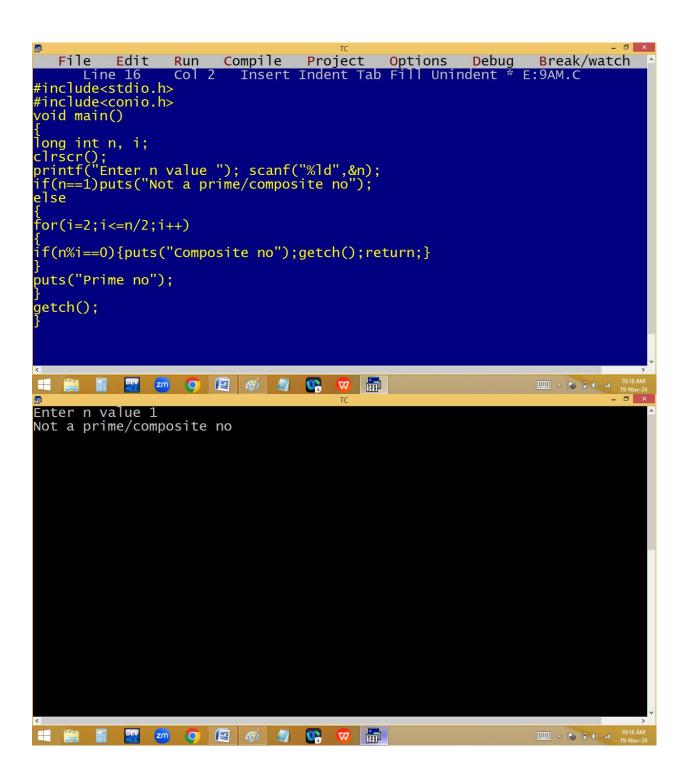


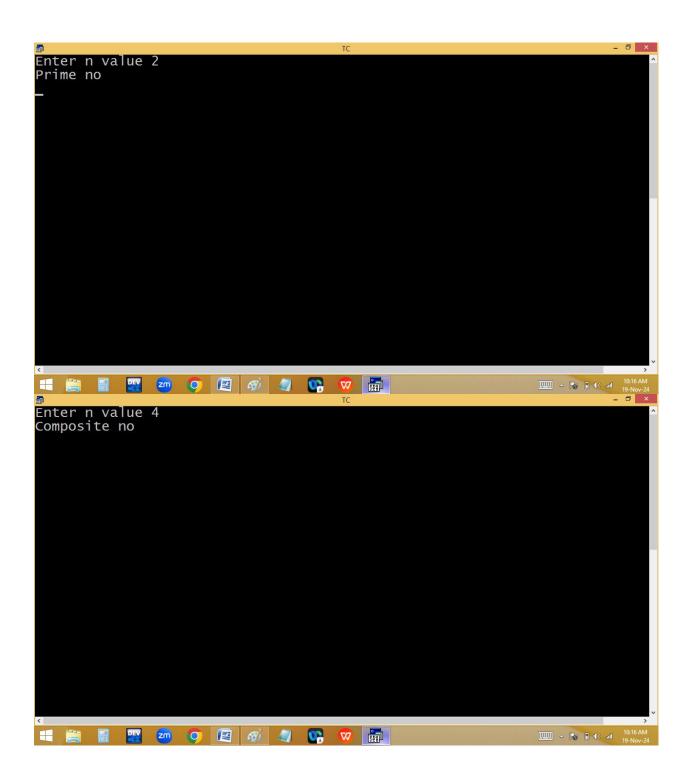


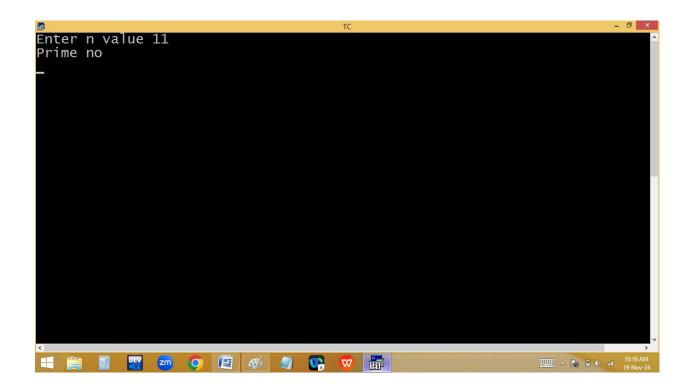


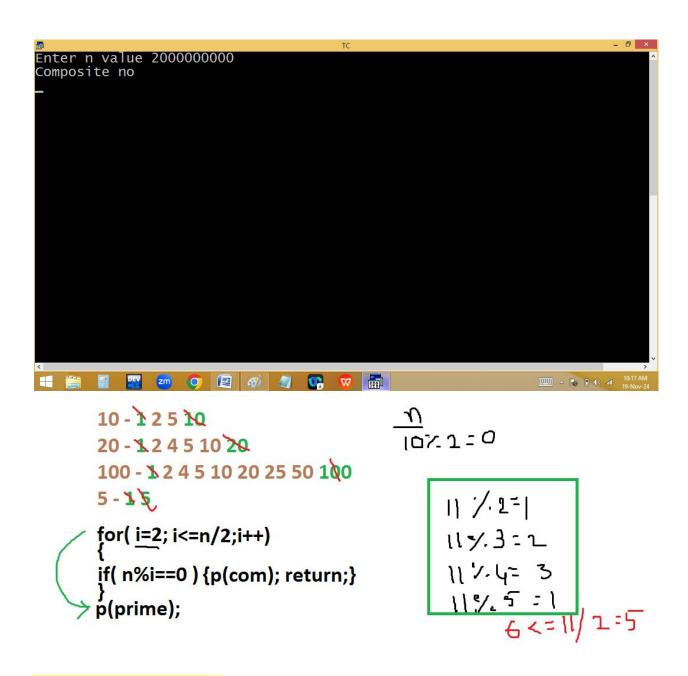


Method2:









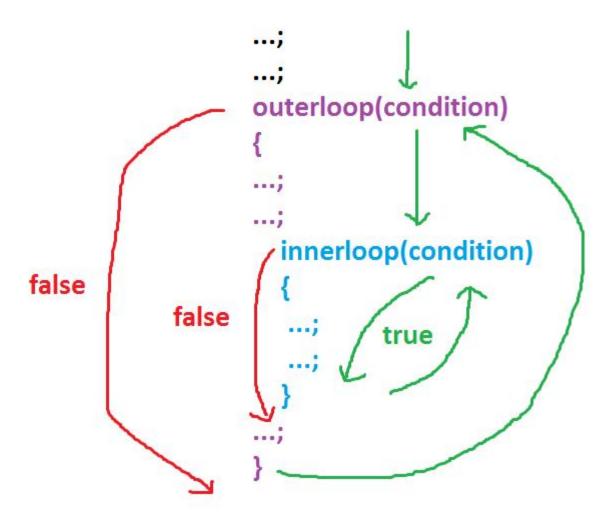
Fibonacci series:

$$n=5 \rightarrow 0 1 1 2 3$$

```
_ 🗇 🗙
   File Edit Run Compile Project Options Debug Break/watch Line 15 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
Line 15 (
#include<stdio.h>
#include<conio.h>
yoid main()
int n, i, f1=0, f2=1, f3;
clrscr();
printf("Enter n value "); scanf("%d",&n);
for(i=1;i<=n;i++)
printf("%4d",f1);
f3=f1+f2;
f1=f2;
f2=f3;
getch();
Enter n value 5
0 1 1 2
                        3_
10:23 AM
19-Nov-24
```

```
- 🗇 ×
             8 13 21 34_
      for( i=1; i<=n; i++ )
{
p(f1); <
f3=f1+f2;
                          √3
f1=f2; f2=f3;
                     O
```

Nested loops: Loop within loop



Printing n tables:

3 tables

```
_ 🗇 🗙
                   Run Compile Project Options Debug Break, Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
   File
           Edit
                                                                       Break/watch
Line 15
#include<stdio.h>
#include<conio.h>
void main()
int n, i, t;
clrscr();
printf("Enter no of tables "); scanf("%d",&n);
for(t=1;t<=n;t++)
for(i=1;i<=10;i++)
printf("%d*%d=%d\n",t,i,t*i);
getch();
            ____ ^ 6 B () all 19
Enter no of 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
               10:46 Al
```

Home work: Tables side by side