Printing the given table:

Eg: 9th table

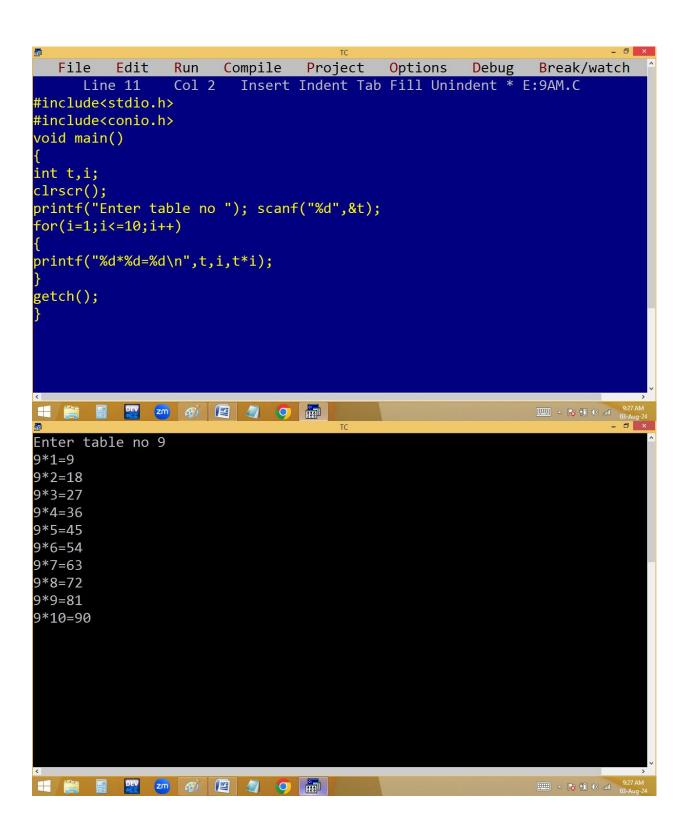
9*1=9

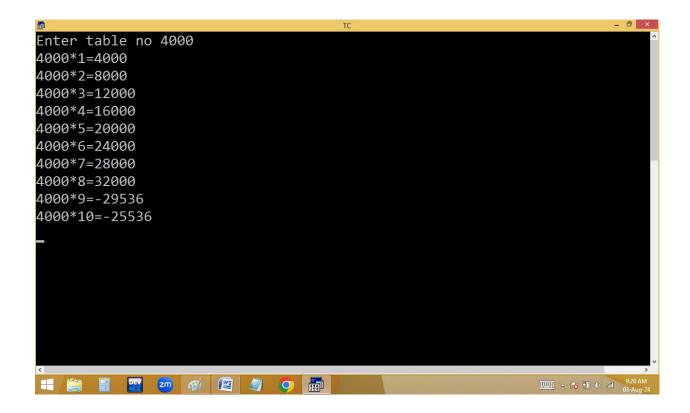
9*2=18

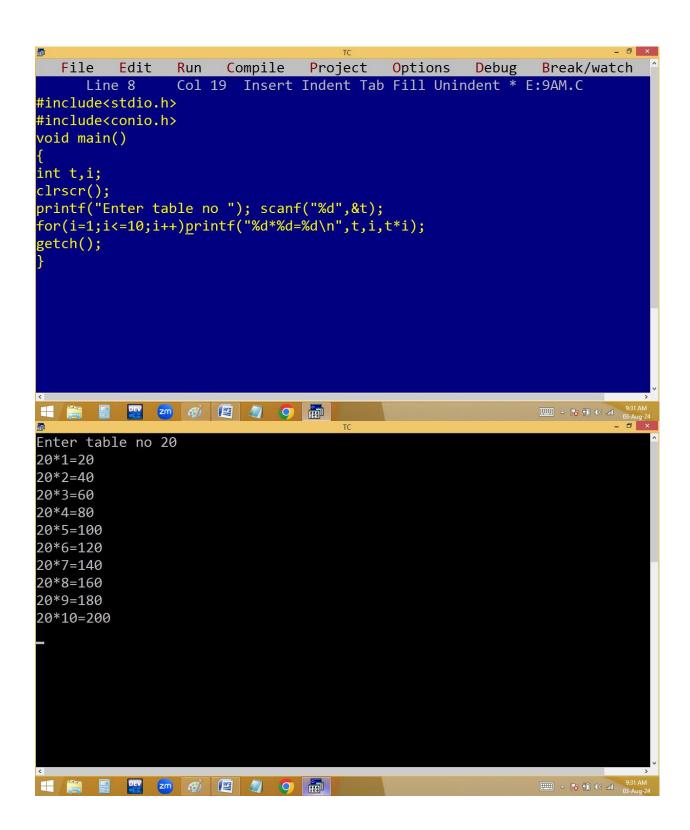
...

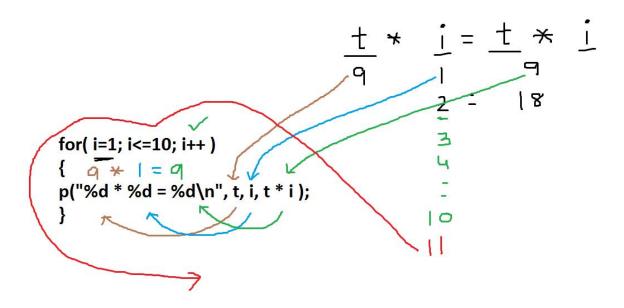
...

9*10=90







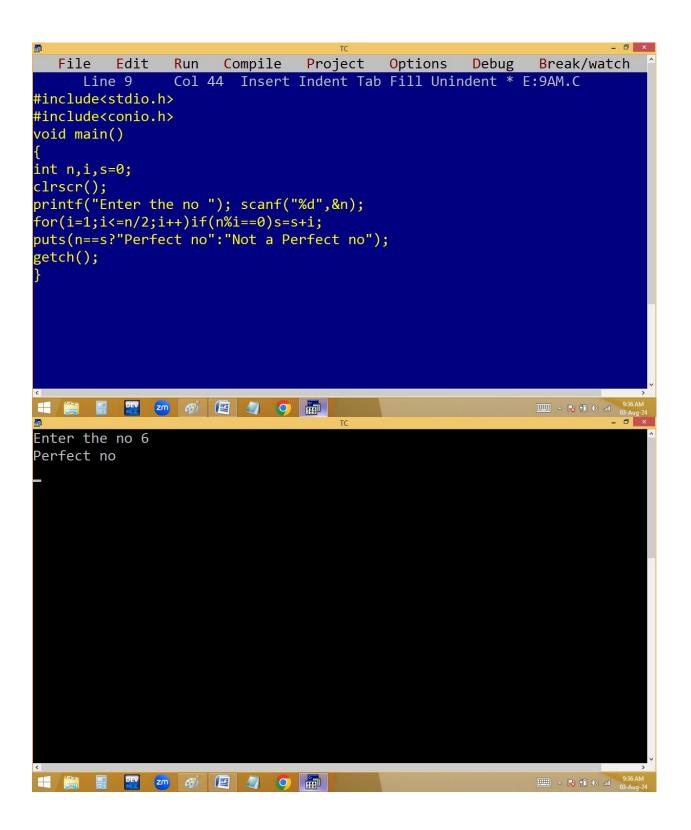


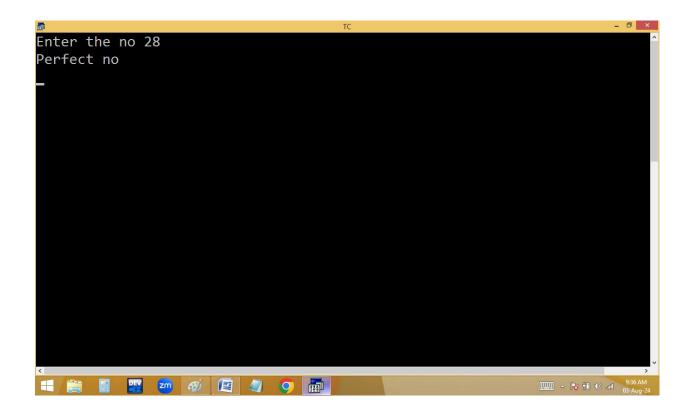
Finding perfect no:

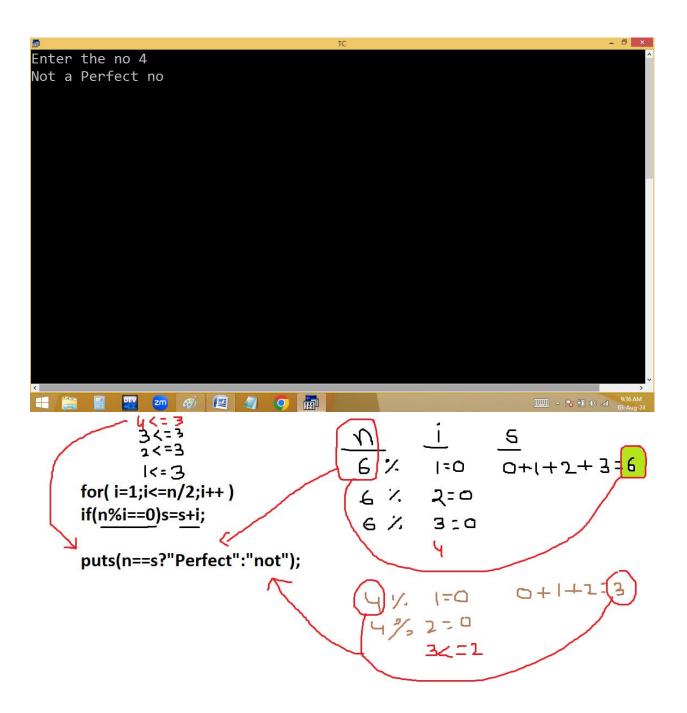
6 factors sum is 1+2+3=6

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

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







Finding prime / composite no:

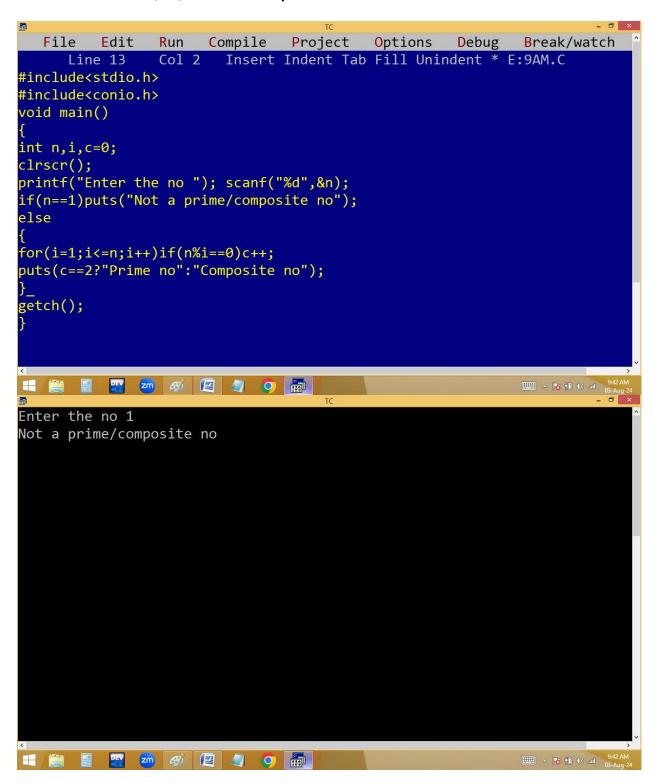
The no having 2 factors is called prime.

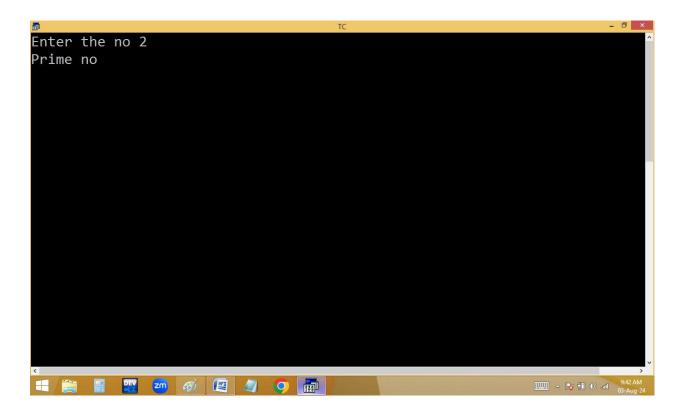
The no divisible with 1 and itself only is called prime.

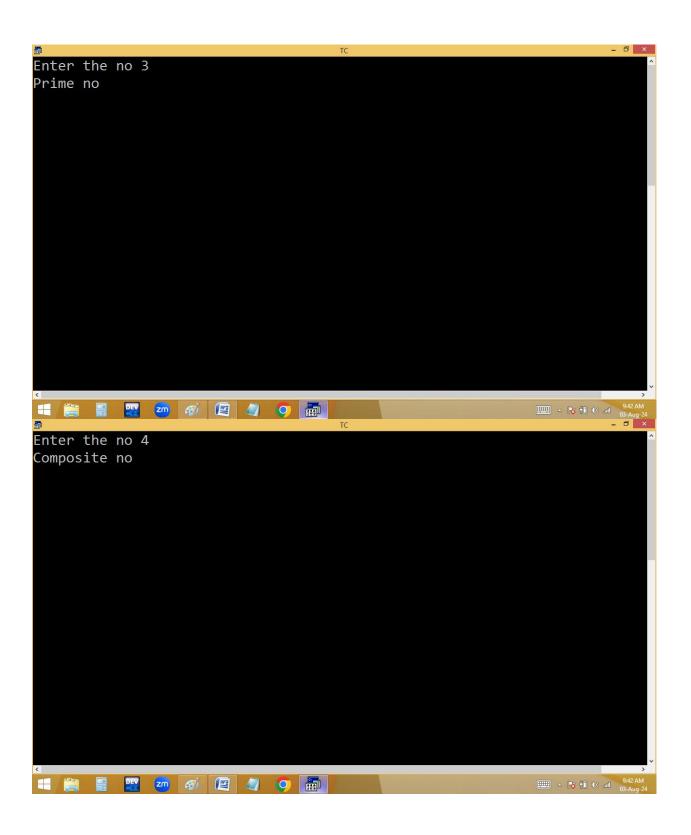
2 factors are 1, 2 ← prime

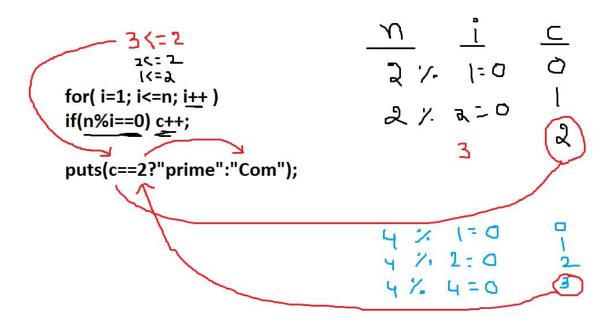
3 factors are 1, 3 ← prime

4 factors are 1, 2, 4 ← composite no

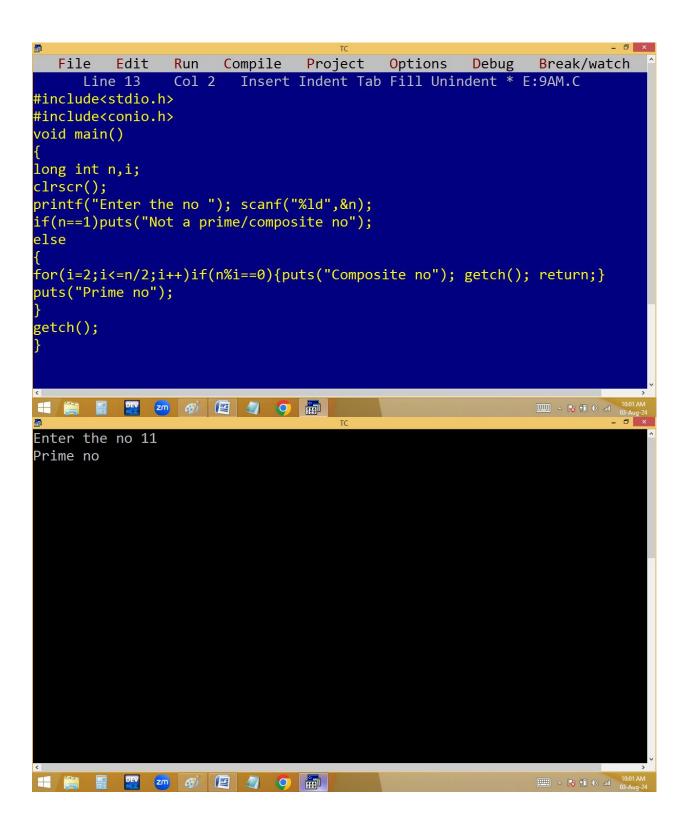


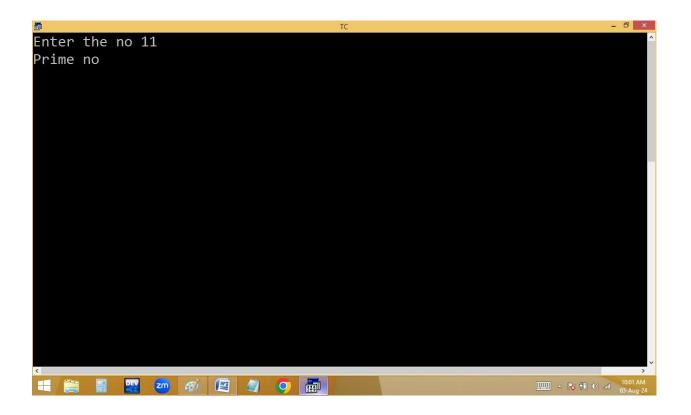


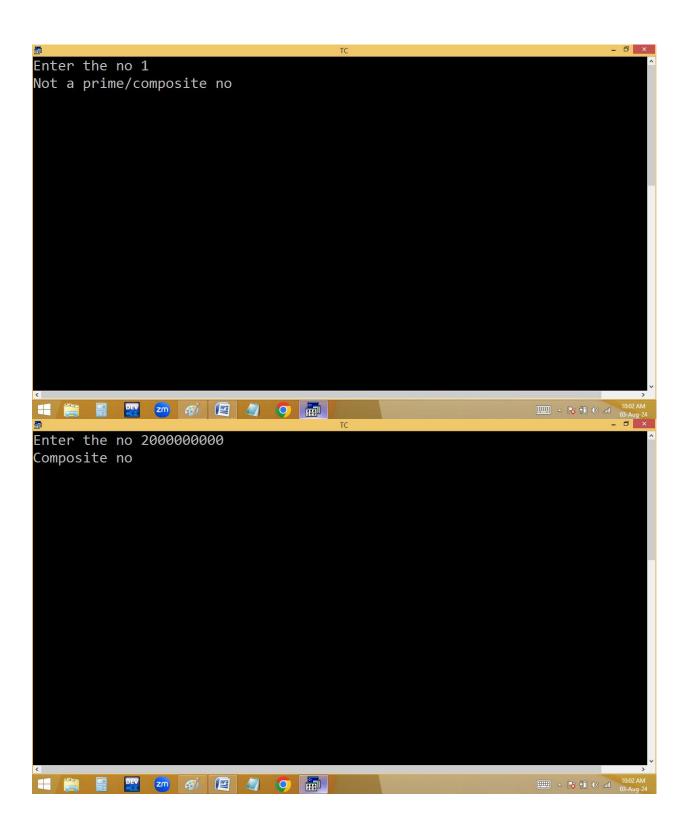




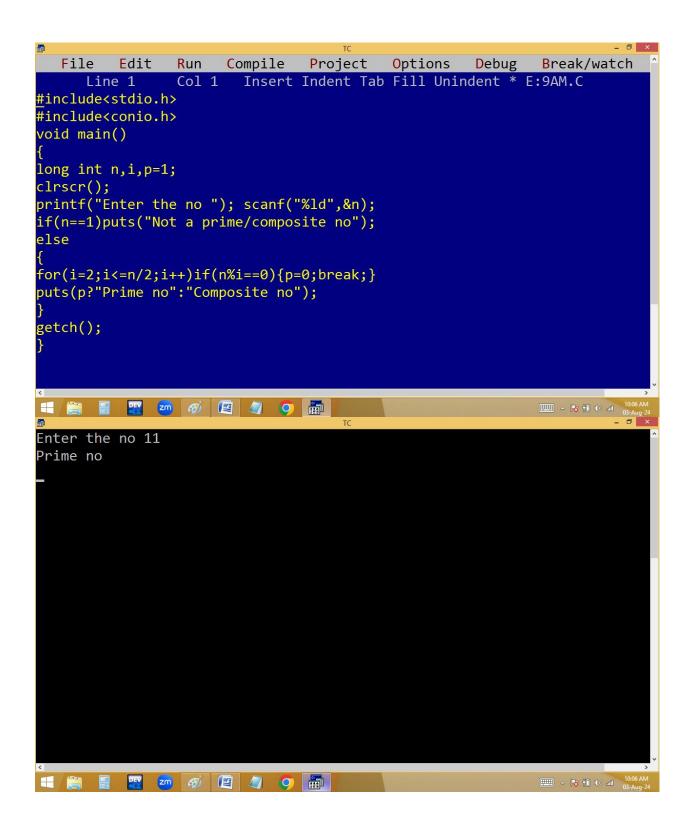
Method 2:

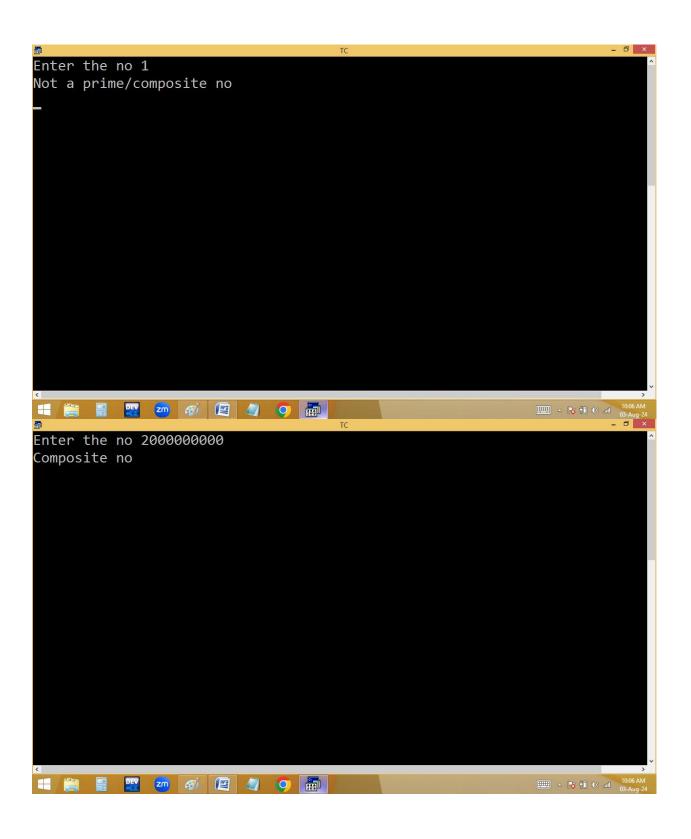






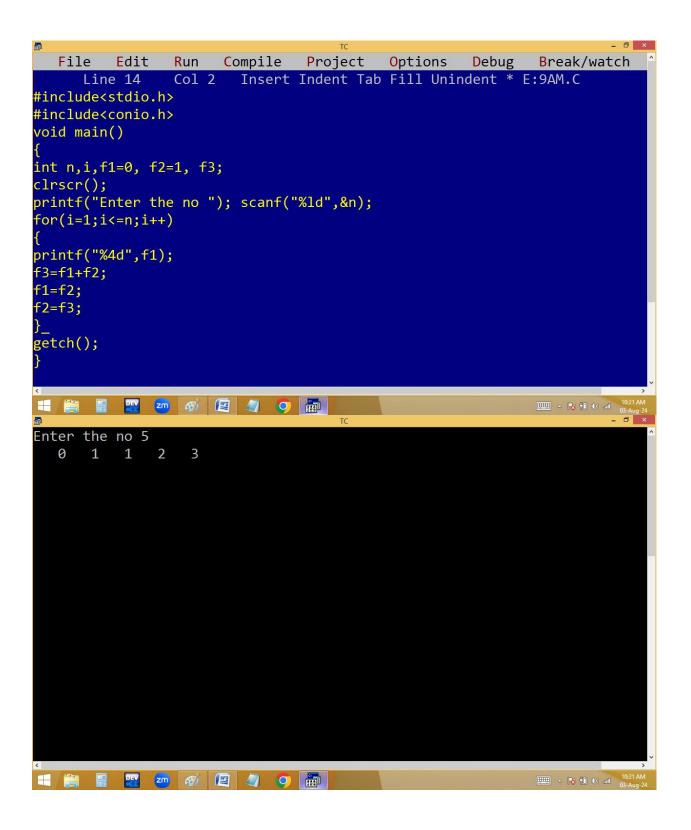
Method 3:

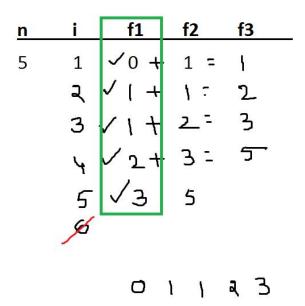




Fibonacci series:

n=5 **→** 0 1 1 2 3

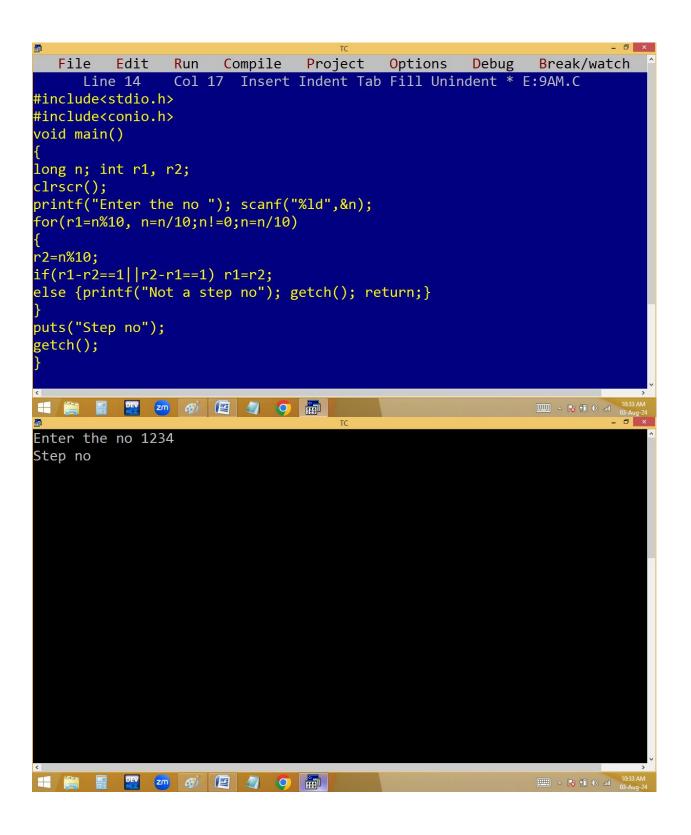


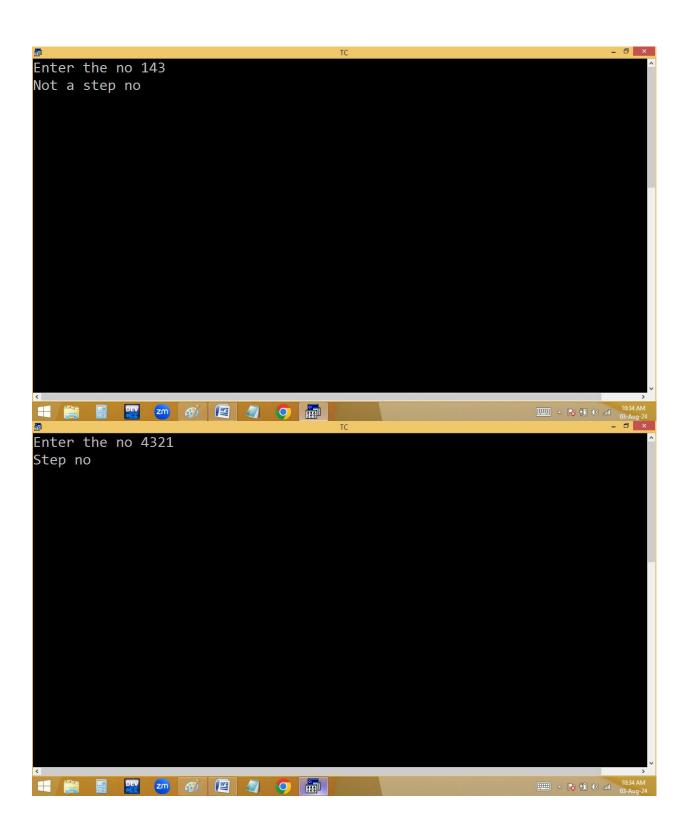


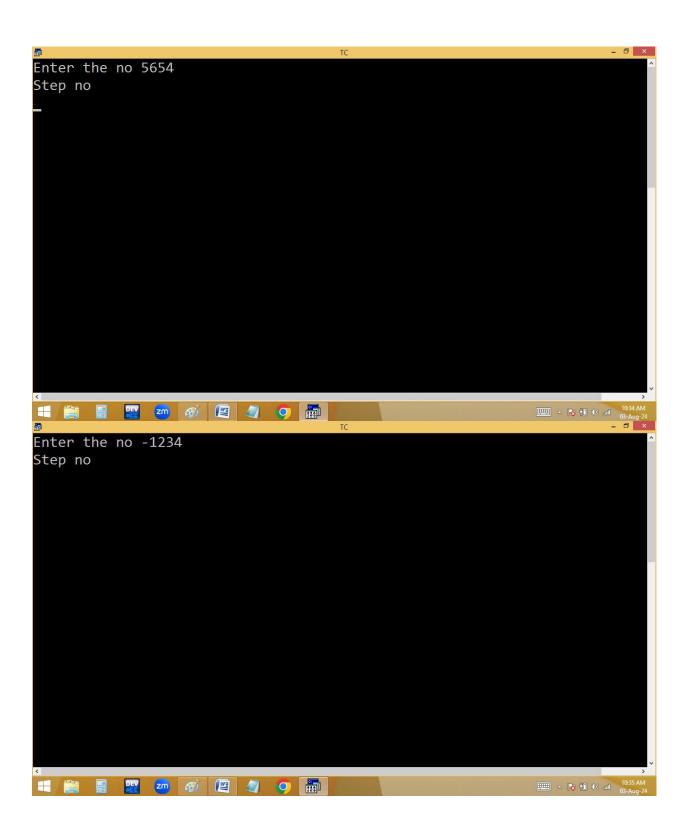
Finding step no.

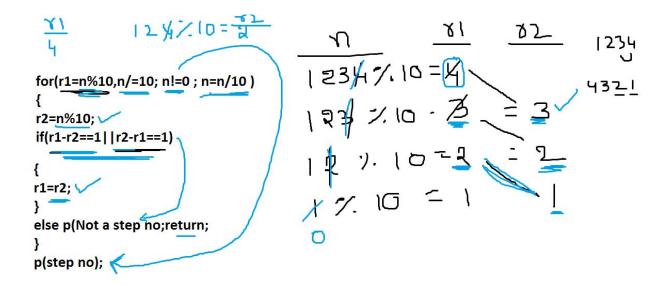
1234 / 4321 **←** step no

1245 **←** not a step no

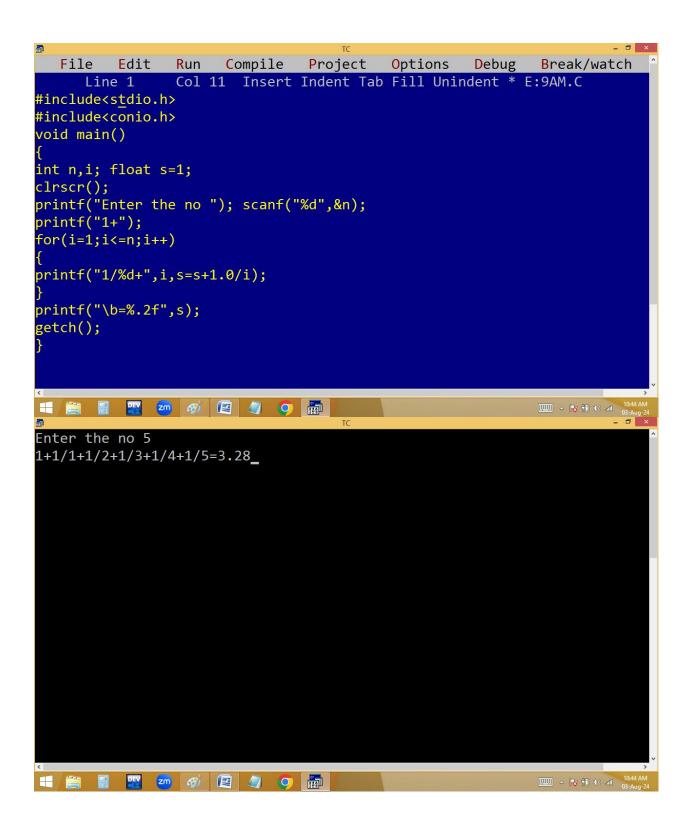








Harmonic series



$$\frac{\Upsilon}{5} \frac{i}{1} \frac{5}{1+1}$$

$$\frac{1}{2+1} \frac{5}{5} = \frac{3}{5} \cdot 5$$

$$\frac{5}{1+1} \frac{5}{2+1} \cdot 5 = \frac{3}{5} \cdot 5$$

$$\frac{7}{5} \frac{i}{1} \frac{5}{2+1} \cdot 5 = \frac{3}{5} \cdot 5$$

$$\frac{7}{5} \frac{1}{1+1} \frac{5}{2+1} \cdot 5 = \frac{3}{5} \cdot 5$$

$$\frac{7}{5} \frac{1}{1+1} \frac{5}{1+1} \cdot \frac{5}{5} \cdot \frac{3}{5} \cdot \frac{3}{5}$$