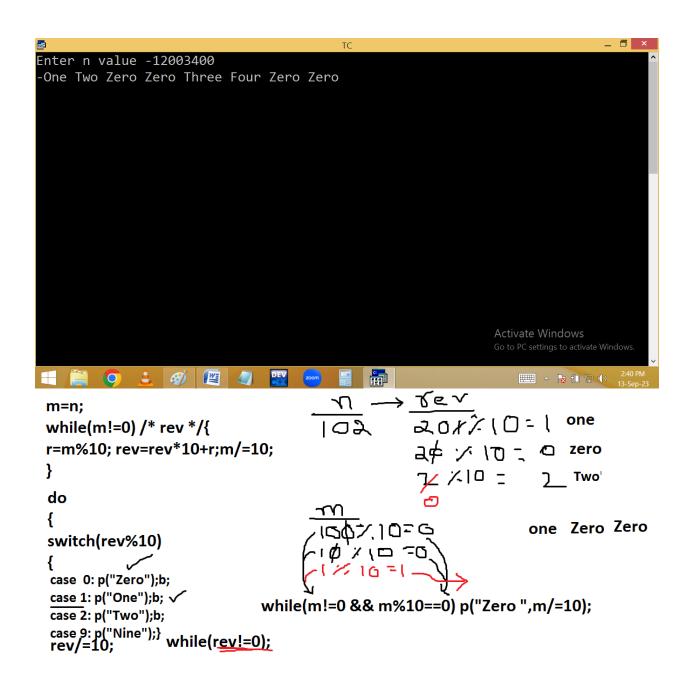
No to text conversion:

102 → One Zero Two

```
#include<stdio.h>
#include<conio.h>
#define p printf /* macro */
#define b break
#define c case
void main()
long n,m,rev=0; int r;
clrscr();
                                              ");
printf("Enter
                               value
                     n
scanf("%ld",&n);if(n<0)p("-",n=-n); m=n;
while(n!=0) { r=n%10; rev=rev*10+r;n/=10;} /*
rev */
```

```
do
{
switch(rev%10)
{
c 0: p("Zero");b;
c 1: p("One");b;
c 2: p("Two");b;
c 3: p("Three");b;
c 4: p("Four");b;
c 5: p("Five");b;
c 6: p("Six");b;
c 7: p("Seven");b;
c 8: p("Eight");b;
c 9: p("Nine");
}
```

```
rev/=10; p(" ");
}while(rev!=0);
while(m!=0 && m%10==0) p("Zero ",m/=10);
getch();
}
```



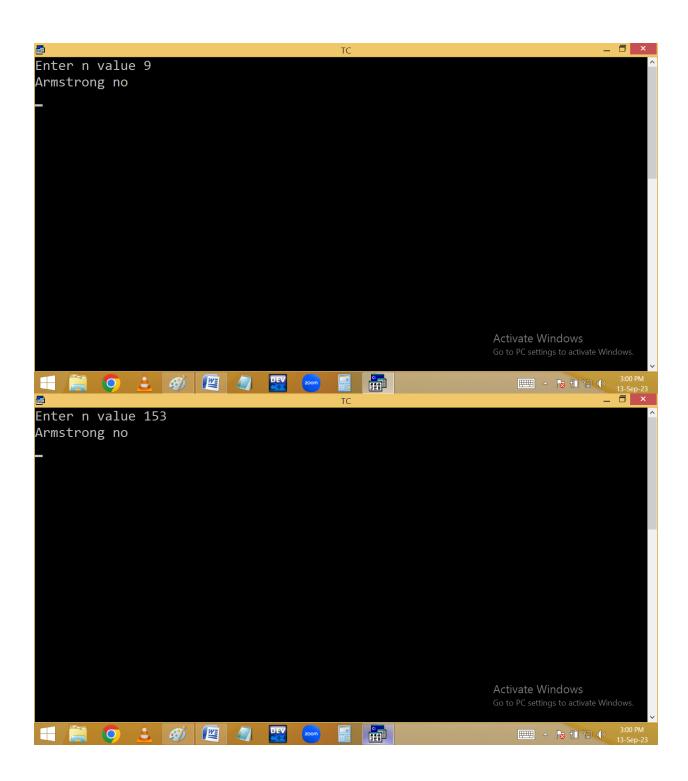
Armstrong no.

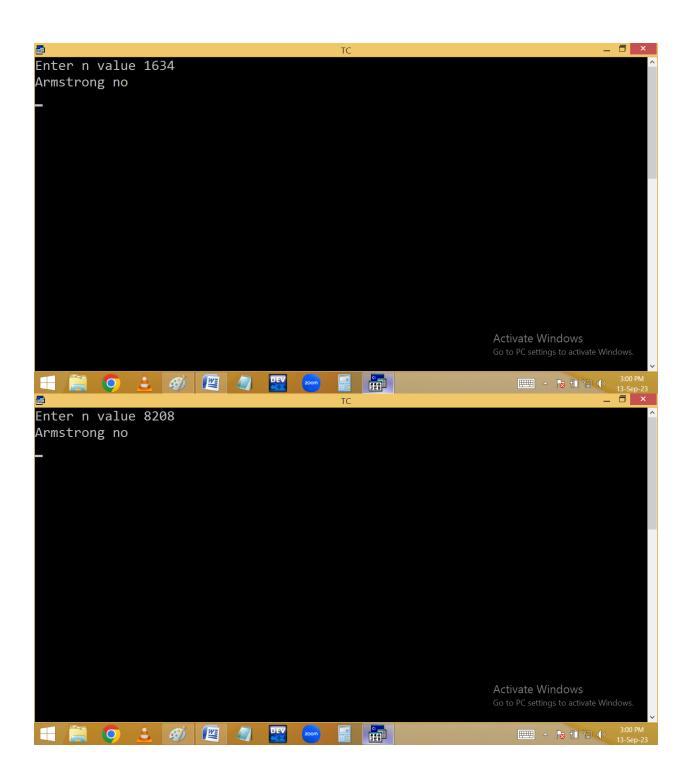
1 to 9, 153, 370, 371, 407, 1634, 8208,...

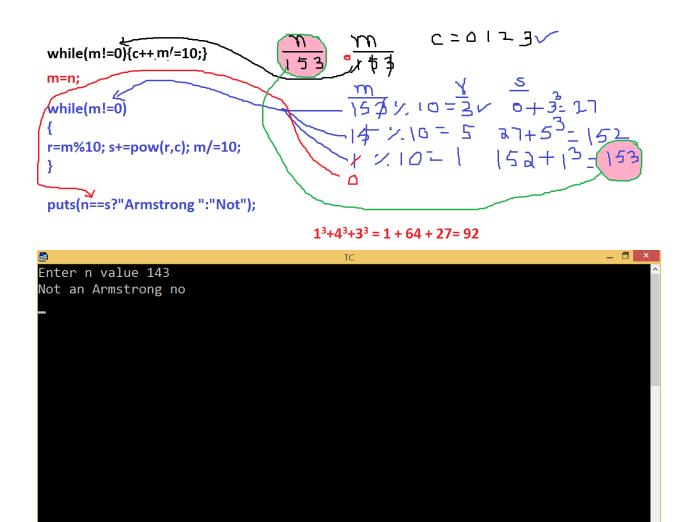
9 is a 1 digit no \Rightarrow 9¹ = 9

153 is 3 digit no \rightarrow 1³+5³+3³=1+125+27 = 153 1634 is 4 digit no \rightarrow 1⁴+6⁴+3⁴+4⁴=1634

```
File Edit
             Run
                  Compile
                          Project
                                  Options
                                           Debug
                                                 Break/watch
    Line 6
             Col 26 Insert Indent Tab Fill Unindent * E:2PM.C
#include<conio.h>
#include<math.h>
void main()
int n,m; int r,c=0,s=0; clrscr();
while(m!=0){c++; m/=10;} /* counting no of digits */
while(m!=0)
r=m%10;
s+=pow(r,c);
m/=10;
puts(n==s?"Armstrong no":"Not an Armstrong no");
                                                Activate Windows
getch();
□ ×
Enter n value 1
Armstrong no
                                               Activate Windows
```







Activate Windows

for loop:

It is an entry control loop. for is a keyword.

It is also used to repeat a program several times based on a condition.

When compared with while and do while, for loop is looking to be smart. In for it is compulsory to maintain two semicolons. For works without condition also and default condition is always 1 i.e. true.

Generally for loop is having 3 expressions.

- 1. Initialization
- 2. Test condition / expression
- 3. Increment/decrement / updation

At first entry of for loop the initialization part is executed and later the test condition is checked. If the condition is true then the for block statements are executed. After completion of the block,

the increment or decrement part is executed. Later once again the test condition is evaluated. If it is true then once again for block statements are executed. Like this the process is continued until the condition becomes false. Here the initialization part is executed only once, at the time of loop beginning.

It is mandatory to maintain 2 semicolon (;) in a for loop.

If the for loop is having more than three expressions, it is mandatory to separate the expressions with, separator.

If the for loop is having less than three expressions, then leave the expressions with empty semicolon.

Eg: printing given table.

Eg: 5th table

5*1=5

5*2=10

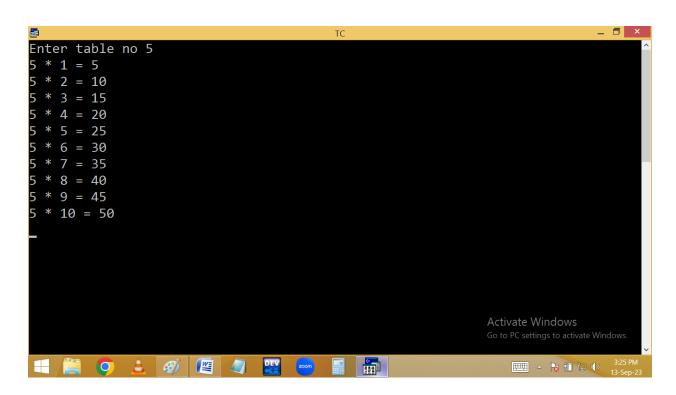
5*3=15

. . .

...

5*10=50

```
File Edit
                    Compile Project Options Debug Break/watch
               Run
     Line 14
               Col 2
                      Insert Indent Tab Fill Unindent * E:2PM.C
#include<conio.h>
#include<math.h>
void main()
int n,i;
clrscr();
printf("Enter table no "); scanf("%d",&n);
for( i=1;i<=10; i++ )
printf("%d * %d = %d\n", n, i , n*i);
getch();
                                                    Activate Windows
   △ 🖟 🗓 🗘 (a) 3:25 P
```



```
Enter table no 4000

4000 * 1 = 4000

4000 * 2 = 8000

4000 * 3 = 12000

4000 * 4 = 16000

4000 * 5 = 20000

4000 * 6 = 24000

4000 * 7 = 28000

4000 * 8 = 32000

4000 * 8 = 32000

4000 * 10 = -25536

Activate Windows
Go to PC settings to activate Windows.
```

```
File Edit Run Compile Project Options Debug Break/watch

Line 11 Col 11 Insert Indent Tab Fill Unindent * E:2PM.C

#include<conio.h>
#include<math.h>
void main()
{
long int n,i;
clrscr();
printf("Enter table no "); scanf("%ld",&n);
for( i=1;i<=10; i++ )
{
printf("%ld * %ld = %ld\n", n, i , n*i);
}
getch();
}

Activate Windows
Go to PC settings to activate Windows.
```

```
File Edit Run Compile Project Options Debug Break/watch

Line 10 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C

#include<conio.h>
#include<math.h>
void main()
{
long int n,i;
clrscr();
printf("Enter table no "); scanf("%ld",&n);
for( i=1;i<=10; i++ )printf("%ld * %ld = %ld\n", n, i , n*i);
getch();
}

Activate Windows
Go to PC settings to activate Windows.

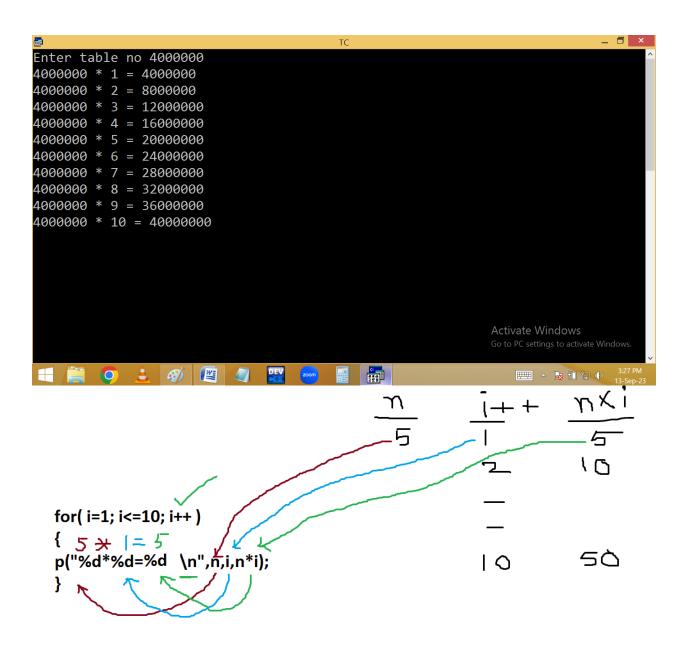
**Activate Windows**
**Go to PC settings to activate Windows.**

**Activate Windows**
**Go to PC settings to activate Windows.**

**Activate Windows**
**Go to PC settings to activate Windows.**

**Activate Windows**
**Go to PC settings to activate Windows.**

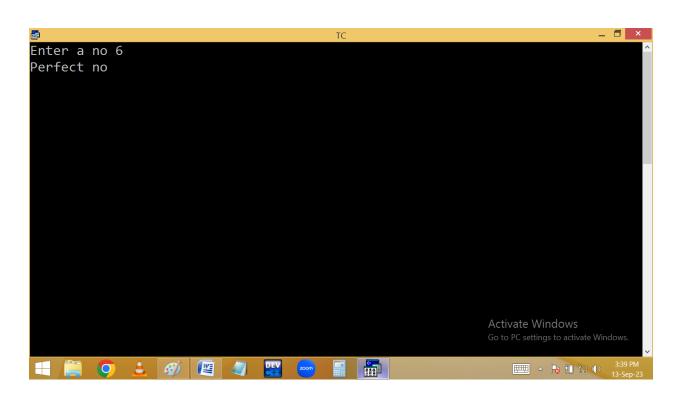
**Activate Windows**
**Go to PC settings to activate Windows**
**Activate Window
```

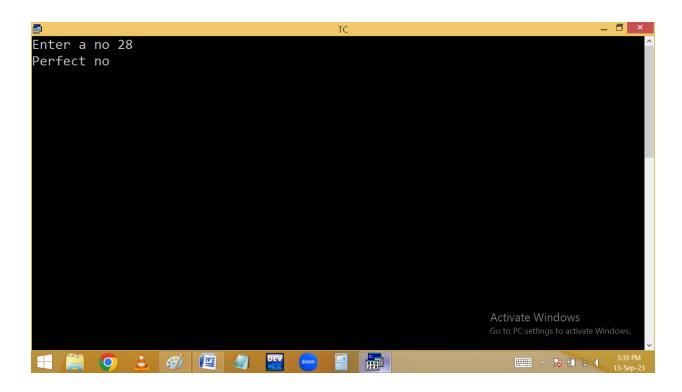


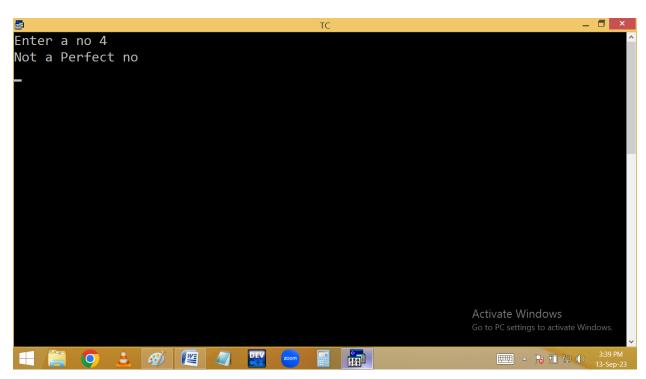
Eg. Finding perfect no or not.

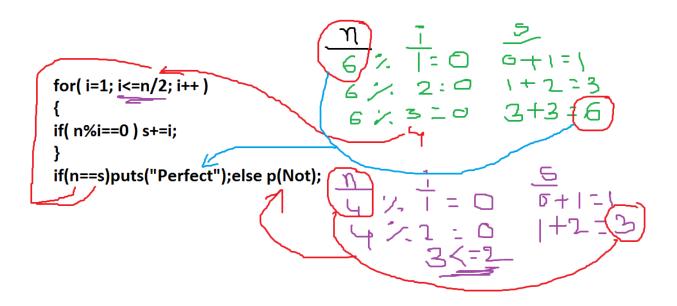
Factors sum is equal to given no.

```
File Edit
                    Compile Project Options Debug Break/watch
              Run
              Col 58 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 10
#include<conio.h>
#include<math.h>
void main()
int n,i,s=0;
clrscr();
printf("Enter a no "); scanf("%d",&n);
for( i=1;i<=n/2; i++ )if(n%i==0)s+=i;
if(n==s)puts("Perfect no");else puts("Not a Perfect no");_
getch();
                                                   Activate Windows
  3:39 Pl
```









Prime no: the no having two factors is called prime or The no divisible with 1 and itself only [except 1].

```
File Edit
              Run
                    Compile Project Options Debug Break/watch
     Line 10
              Col 8
                     Insert Indent Tab Fill Unindent * E:2PM.C
#include<conio.h>
#include<math.h>
void main()
int n,i,c=0;
clrscr();
printf("Enter a no "); scanf("%d",&n);
for( i=1;i<=n; i++ )if(n%i==0)c++;
if(c==2)puts("Prime no");else puts("Composite no");
getch();
                                                   Activate Windows
  3:45 Pl
```

