# **Printing the given table:**



..

..

9\*10=90

```
_ 0 ×
            Edit Run Compile Project Options Debug Break/watch ine 11 Col 2 Insert Indent Tab Fill Unindent * E:9AM.C
     File
Line 11 (
#include<stdio.h>
#include<conio.h>
yoid main()
int t,i;
clrscr();
printf("Enter table number "); scanf("%d",&t);
for(i=1;i<=10;i++)</pre>
printf("%d * %d = %d\n",t,i,t*i);
getch();
                 - To 10 (1) all 18-
Enter table number 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
9:30 AM
```

```
_ 🗇 🗙
Enter table number 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 * 9 = -29536
4000 * 10 = -25536
9:3
18-1
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 16 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
long int t; int i;
clrscr();
printf("Enter table number "); scanf("%ld",&t);
for(i=1;i<=10;i++)
printf("%ld * %d = %ld\n",t,i,t*i);
getch();
9:31 Al
```

```
Enter table number 4000
4000 * 1 = 4000
4000 * 2 = 8000
4000 * 3 = 12000
4000 * 5 = 20000
4000 * 6 = 24000
4000 * 7 = 28000
4000 * 8 = 32000
4000 * 8 = 30000
4000 * 10 = 40000
```

```
_ 0 ×
Enter table number 400000

400000 * 1 = 400000

400000 * 2 = 800000

400000 * 3 = 1200000

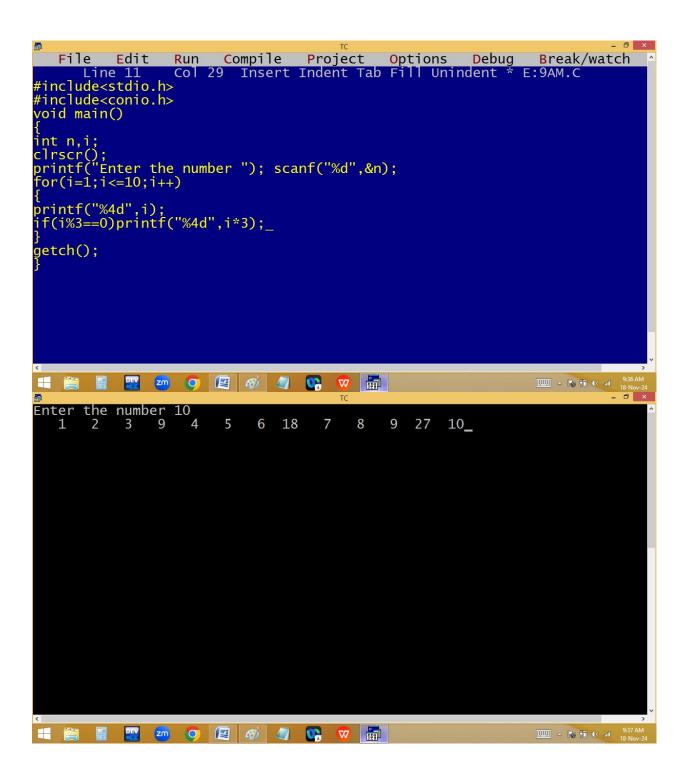
400000 * 4 = 1600000
400000 * 5 = 2000000

400000 * 6 = 2400000

400000 * 7 = 2800000
400000 * 8 = 3200000
400000 * 9 = 3600000
400000 * 10 = 400000
               9:32 AM
18-Nov-24
                                                                                     i++=t*i
                                                                          9
                                                                                           = 9
       for( i=1; i<=10; i++ )
               9 * 1 = 9
                                                                                     10 = 90
       p("%d * %d = %d\n",t, i, t*i);
```

#### **Print below series:**

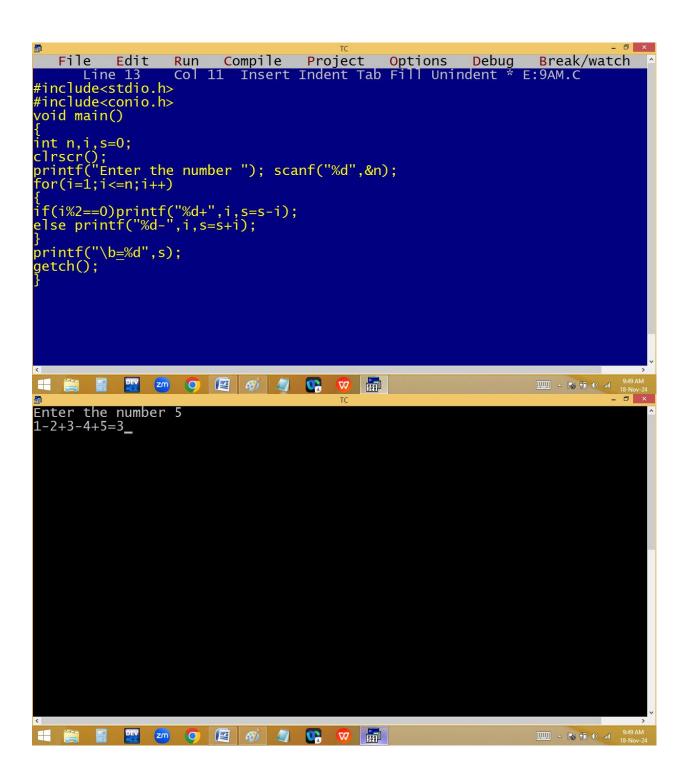
12394561878927...n

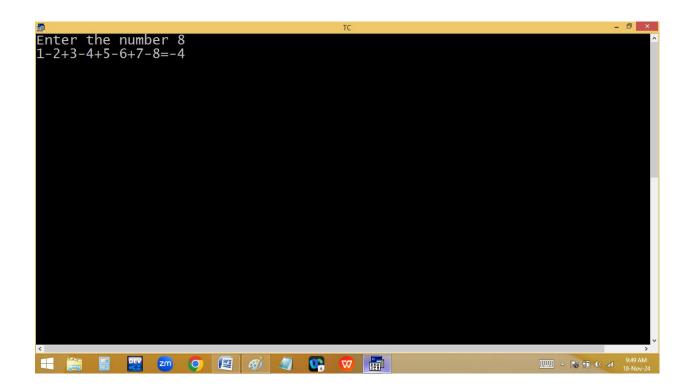


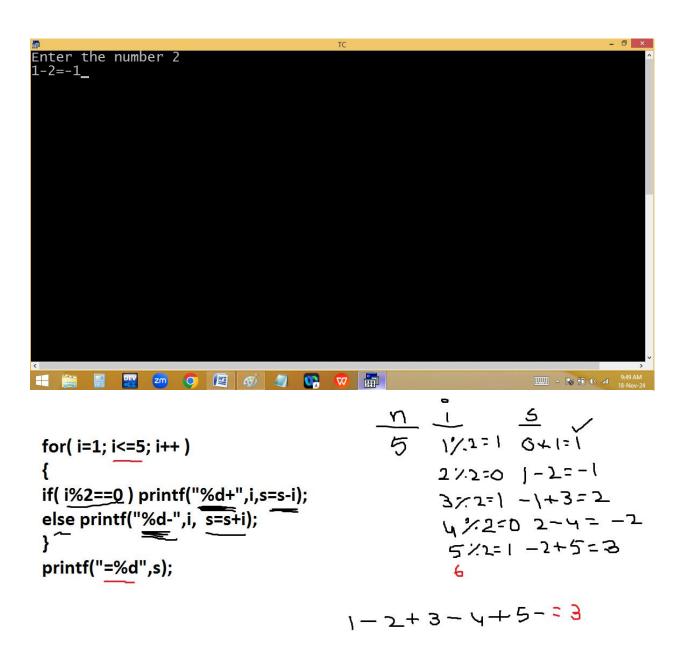
```
for( i=1; i<=n; i++)
{
  printf(i);
  if( i%3==0) p( i * 3 );
}
```

## **Print below series:**

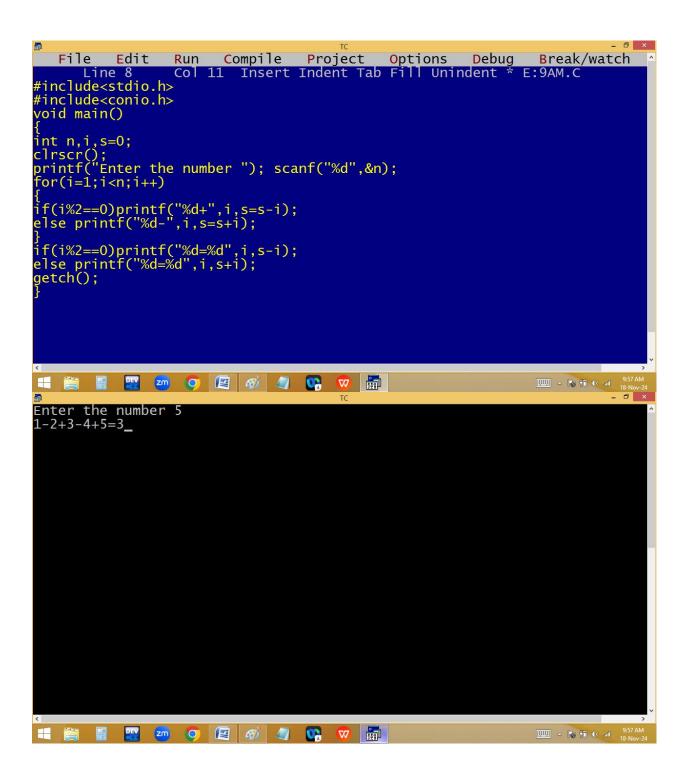
$$n=5 \rightarrow 1-2+3-4+5=3$$

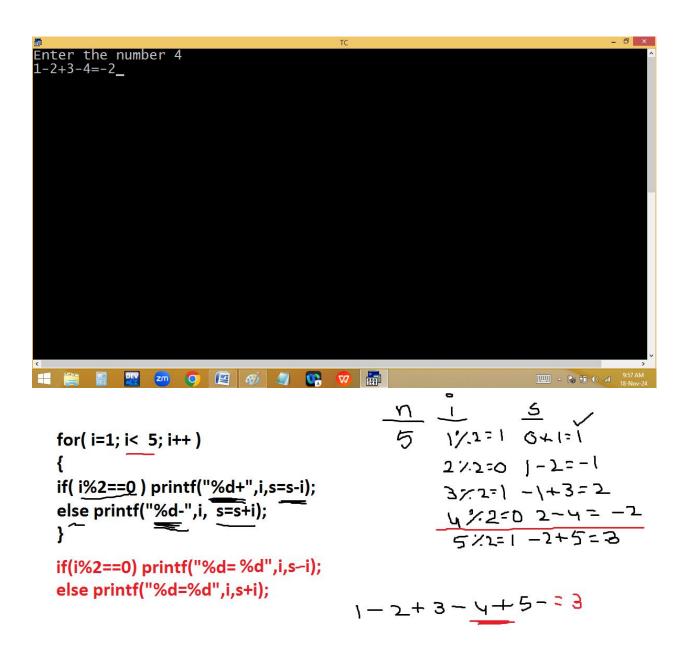






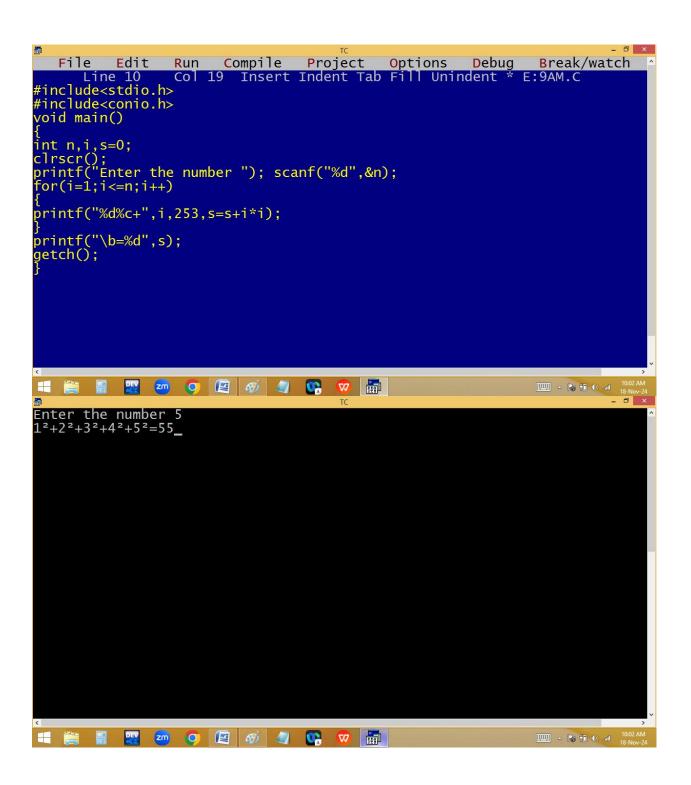
### Without using \b:

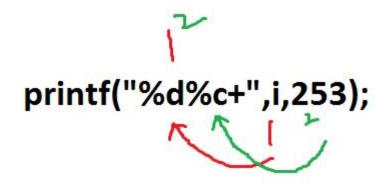




### **Print below series:**

$$n=5 \rightarrow 1^2 + 2^2 + 3^2 + 4^2 + 5^2 = 1 + 4 + 9 + 16 + 25 = 55$$





Without using \b:

```
File Edit Run Compile Project Options Debug Break/watch
Line 14 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
Line 14 (#include<stdio.h>
#include<conio.h>
void main()
int n,i,s=0;
clrscr();
printf("Enter the number "); scanf("%d",&n);
for(i=1;i<=n;i++)
c
s=s+i*i;
if(i<n) printf("%d%c+",i,253);
else printf("%d%c=%d",i,253,s);
getch();
 _____ ^ 10 10 d) all 18-
Enter the number 5
1²+2²+3²+4²+5²=55_
         10:05 AM
```

#### **ASCII Table:**

```
- 🗇 ×
                      Run
   File
             Edit
                             Compile Project Options Debug
                                                                                    Break/watch
                                  Insert Indent Tab Fill Unindent * E:9AM.C
        Line 8
                       Col 1
#include<stdio.h>
#include<conio.h>
void main()
int i;
clrscr();
for(i=0;i<256;i++)printf("%d = %c\t",i,i);
getch();
              8 =
                   10
                                                                                     20
29
&
                                                17
26
                 1
                       15
                                    16
                                                             18
                                                                         19
                                                                                                  21
           14
                                                      1
                                                                   1
                                       = >
                        24 =
                                     25
                                                             27
                                                                         28
                                                                                                  30
                                                                       = %
= /
= 9
                                             35
                                                                               38
                                  34
                                                    #
                                                        36
                                                               $
                                                                   37
                                                                                          39
                                                                                                     4
        )
            42
                       43
                                             45
                                                                   47
                                  44
                                                        46
                                                                               48
                                                                                     0
                                                                                          49
                                                                                                     5
6
7
8
                                                               8
                                      = ,
= 6
                             5?
                                             55
                                                    7
                                                        56
                                                                   57
            52
               = 4
                       53
                                  54
                                                                               58
                                                                                          59
            62
                       63
                                  64
                                             65
                                                                   67
                                                                       = C
                                      = 0
                                                        66
                                                            = B
                                                                               68
                                                                                     D
                                                                                          69
     = =
               =
                                                 = A
    = G
            72
               = H
                       73
                             I
                                  74
                                         J
                                             75
                                                    K
                                                         76
                                                            = L
                                                                    77
                                                                       = M
                                                                               78
                                                                                  = N
                                                                                          79
            82 = R
92 = \
                       83 = S
93 = ]
                                  84
                                             85
                                                            = V
                                      = T
                                                 = U
                                                        86
                                                                   87
                                                                       = W
                                                                              88
                                                                                     X
 81 = Q
                                  94
                                             95
                                                        96
                                                                   97 = a
                                                                              98 = b
                                                                                          99
 101 = e 102 = f
                       103 = g
                                  104 = h \ 105 = i
                                                        106 = j
                                                                   107 = k \ 108 = 1 \ 109 = m
 = u 118 = v 119
                                                                               128 = Ç
138 = è
                                                                                          129
                                                                                          139
  141 = \hat{1} 142 = \hat{A} 143 = \hat{A} 144 = \hat{E} 145 = \hat{a} 146 = \hat{E}

151 = \hat{u} 152 = \hat{y} 153 = \hat{O} 154 = \hat{U} 155 = \hat{C} 156 = \hat{E}

161 = \hat{I} 162 = \hat{O} 163 = \hat{U} 164 = \hat{I} 165 = \hat{N} 166 = \hat{I}
                                                                    147 = \hat{o} \ 148 = \hat{o}
                                                                                          149
                                                                                                = ò
                                                                                158
168
                                                                     157 =
                                                                                     = Ps
                                                                                           159
                                                                             o
                                                                     167
                                                                                           169
             172
182
192
202
212
                        173
183
193
203
213
                                                         176 = |||
186 = ||
                                                                                178
188
198
208
218
                             = i 174 =
= n 184 =
= 194 =
                                              175 = »
185 = |
195 = |
                                                                    177
187
197
207
  171 = \frac{1}{2}
                     1/4
                                        = «
                                              185
195
205
215
                                                                                           189
  181 = =
  191 = 7
                                                          196
                                                                                           199
                                   204
214
                                                          206
                                                                                           209
                     1
                                T
                   △ 🏗 (10:08 n
```

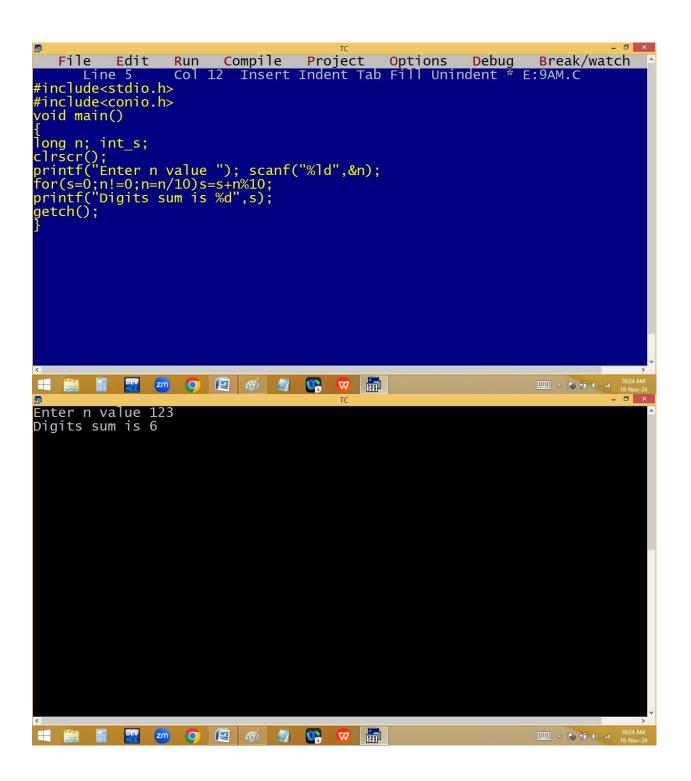
## **Harmonic series**:

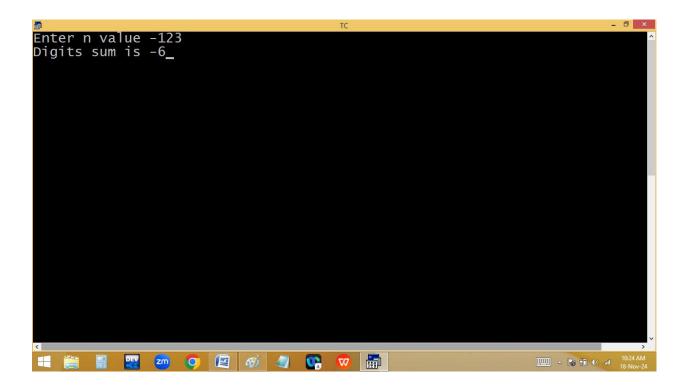
$$n=5 \rightarrow 1 + 1/1 + 1/2 + 1/3 + 1/4 + 1/5 = 3.28$$

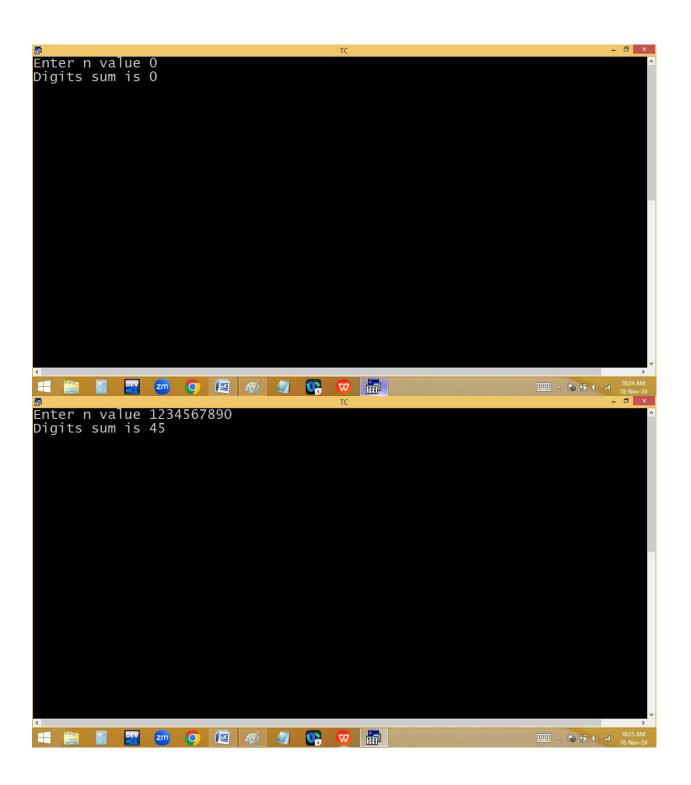
```
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 21 Insert Indent Tab Fill Unindent * E:9AM.C
Line 13 (
#include<stdio.h>
#include<conio.h>
yoid main()
int i,n; float s=1;
clrscr();
printf("Enter n value "); scanf("%d",&n);
printf("1+");
for(i=1;i<=n;i++)
printf("1/%d+",i,s=s+1.0/i);
printf("\b=%.2f",s);
getch();
Enter n value 5
1+1/1+1/2+1/3+1/4+1/5=3.28
        △ No 10:18 AN
```

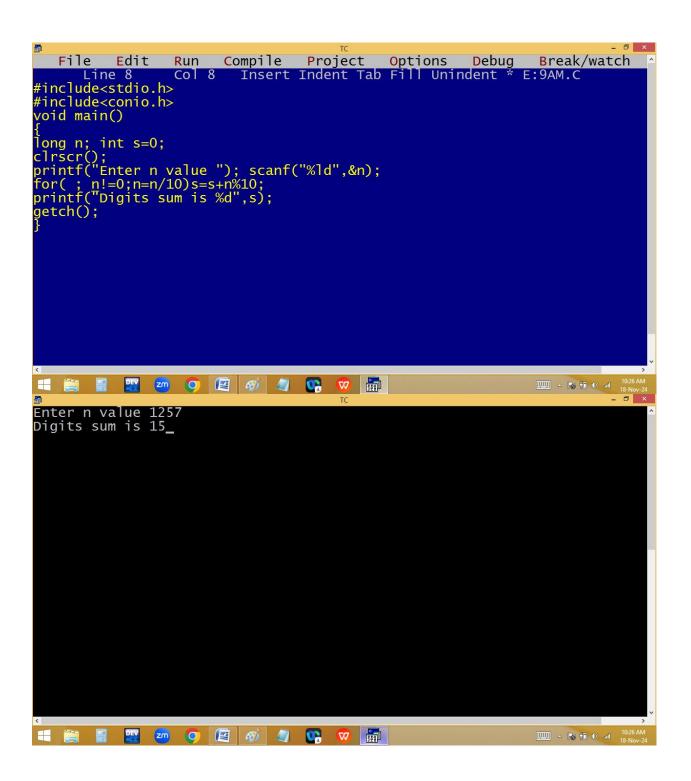
### Finding digits sum:

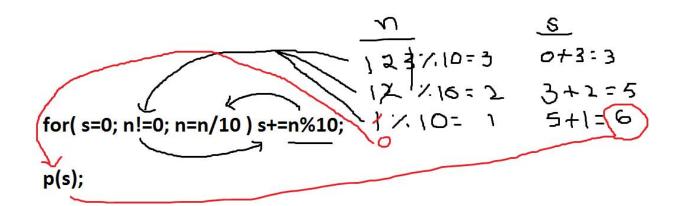
$$n=123 \rightarrow 1+2+3=6$$











### **Finding Armstrong no:**

1 is a single digit no  $\rightarrow$  1<sup>1</sup> = 1

2 is a single digit no  $\rightarrow$ 2<sup>1</sup> = 2

9 is a single digit no  $\rightarrow$  9<sup>1</sup> =9

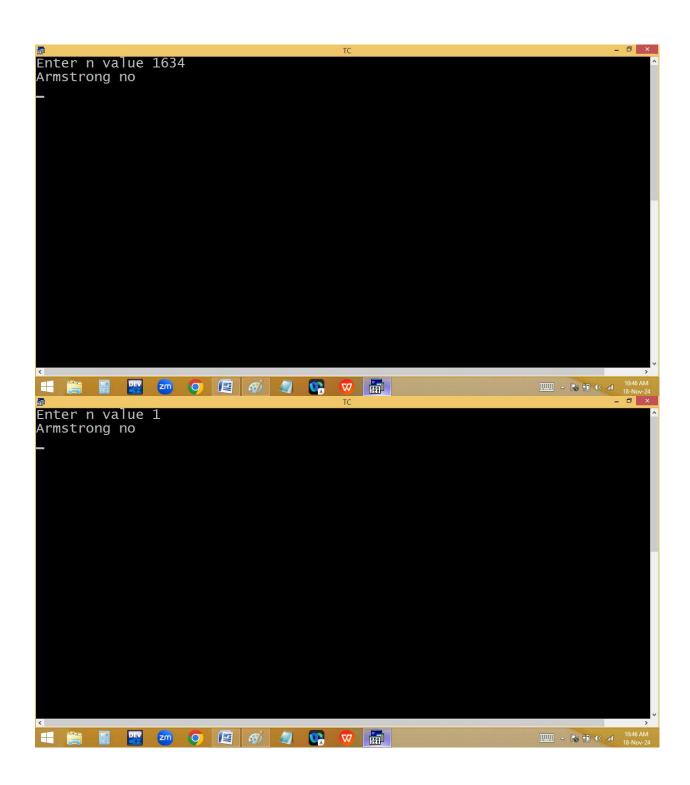
153 is a three digit no  $\rightarrow$  1<sup>3</sup>+5<sup>3+</sup>3<sup>3</sup> = 1+125+27=153

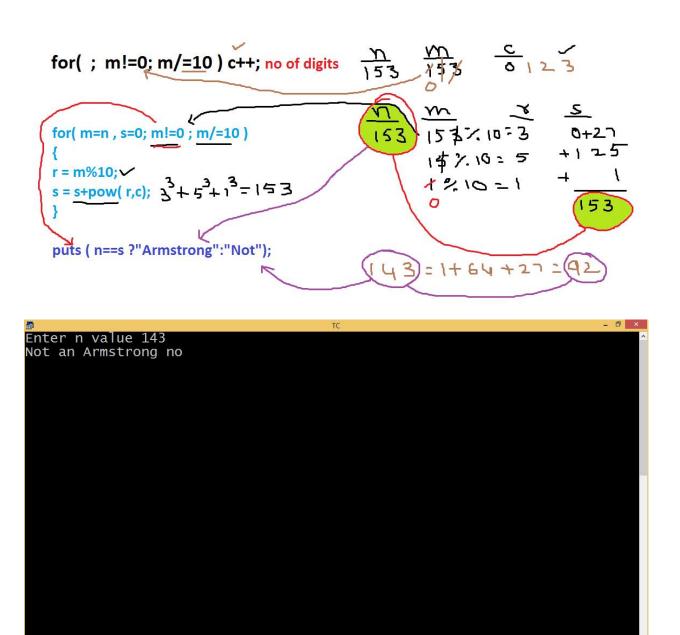
370, 371, 407, 1634, 8208,...

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

Here power depended on no of digits.

```
File Edit Run Compile Project Options Debug Break/watch
                  Col 17 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
#include<math.h>
yoid main()
int n,m,c=0,s=0,r;
clrscr();
printf("Enter n value "); scanf("%d",&n);
for(m=n;m!=0;m/=10)c++; /* counting no of digits */
for(m=n;m!=0;m/=10)
r=m%10;
s+=pow(r,c);
puts(n==s?"Armstrong no":"Not an Armstrong no");
getch();
           Enter n value 153
Armstrong no
           □□□ △ 🔐 🗓 (b) and 10:46 AN
```





10:46 AM

#### Home work:

**12345678** → **78 56 34 12**