### Finding the no position:

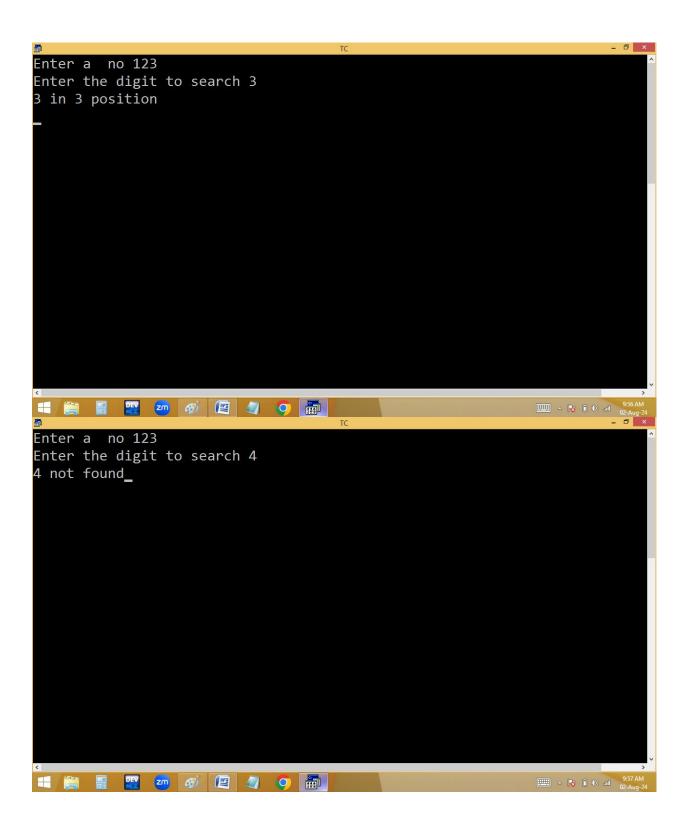
#### 1084 → 8 position is 3

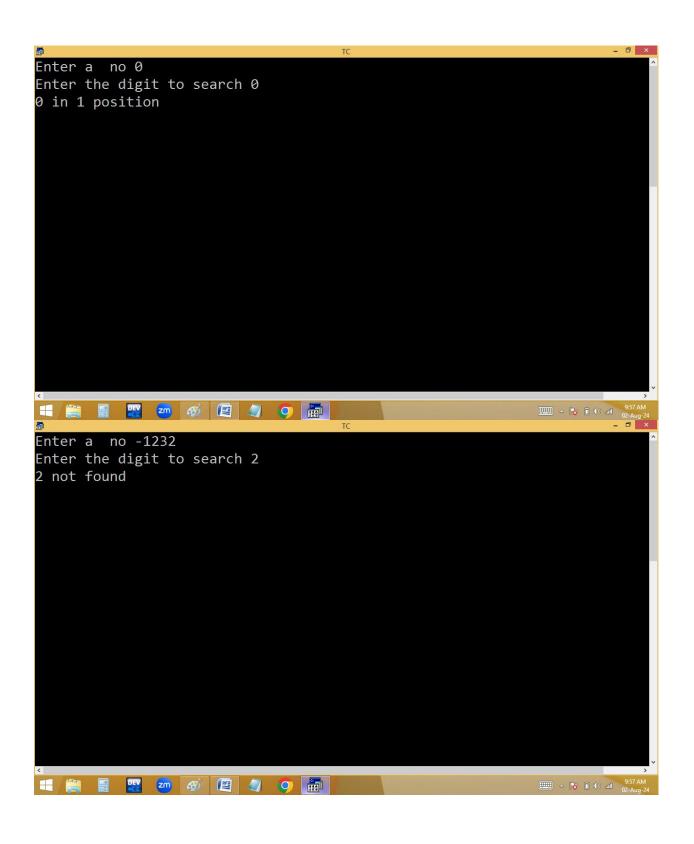
```
Col 34 Insert Indent Tab Fill Unindent * E:9AM.C
     Line 18
#include<stdio.h>
#include<conio.h>
void main()
long m,n; int c=0, d,f=0;
clrscr();
printf("Enter the digit to search "); scanf("%d",&d);
do{c++;m=m/10;}while(m!=0); /* counting no of digits */
do
if(n%10==d)printf("%d in %d position\n",d,c,f=1);
C--;
n=n/10;
}while(n!=0);
if(f==0)printf("%d not found",d);
getch();
Enter the digit to search 4
4 not found_
     _____ △ 😼 🗈 (I) and 9:42 AN
```

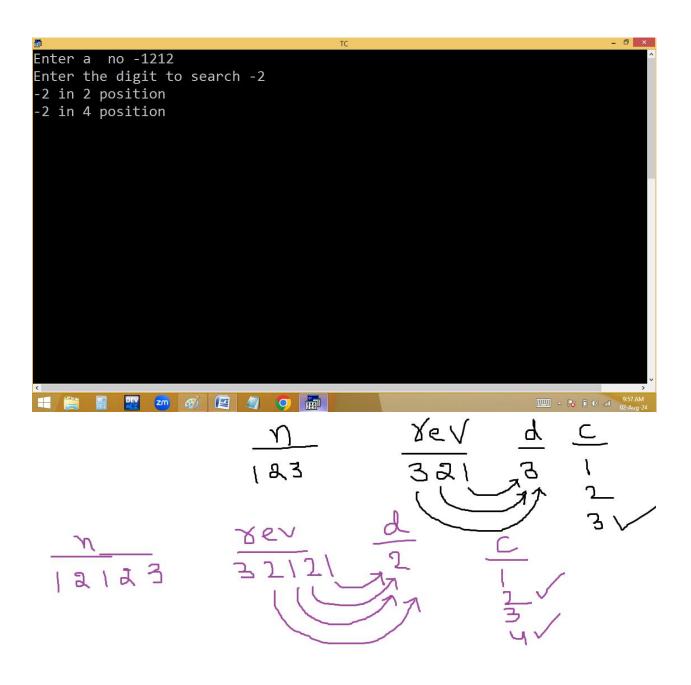
```
Enter a no 12121342
Enter the digit to search 2
2 in 8 position
2 in 4 position
2 in 2 position
```

#### Method2:

```
_ 0 ×
  File Edit
               Run
                    Compile Project Options Debug
                                                     Break/watch
               Col 33 Insert Indent Tab Fill Unindent * E:9AM.C
     Line 1
#include<stdio.h>
#include<conio.h>
void main()
long m,n,rev=0; int c=1, d,f=0; clrscr();
printf("Enter a no "); scanf("%ld",&n);m=n;
while(m) { rev=rev*10+(m%10); m=m/10; } /* rev */
printf("Enter the digit to search "); scanf("%d",&d);
do
if(rev%10==d)printf("%d in %d position\n",d,c,f=1);
C++;
rev=rev/10;
}while(rev!=0);
if(f==0)printf("%d not found",d);
getch();
____ ^ ( ) All 02
Enter a no 1212132
Enter the digit to search 2
2 in 2 position
2 in 4 position
2 in 7 position
```







```
\frac{\gamma_{ev}}{1232} \frac{\gamma_{ev}}{231\lambda^{2}/10=1==2}
\frac{\gamma_{ev}}{231\lambda^{2}/10=1==2}
\frac{\gamma_{ev}}{\gamma_{ev}} \frac{\gamma_{e
```

#### No to text conversion:

```
#include<stdio.h>
#include<conio.h>

void main()

{
long m,n,rev=0; int c=1, d,f=0; clrscr();

printf("Enter a no "); scanf("%ld",&n);if(n<0)printf("-",n=-n);

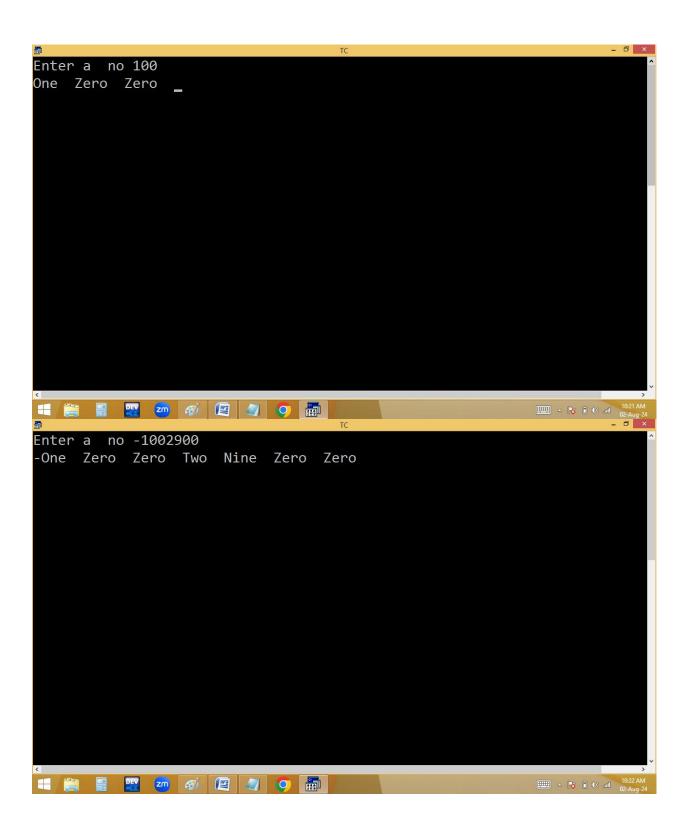
m=n;

while(m) { rev=rev*10+(m%10);m=m/10; } /* rev */

do

{
```

```
switch(rev%10)
{
case 0: printf("Zero");break;
case 1: printf("One");break;
case 2: printf("Two");break;
case 3: printf("Three");break;
case 4: printf("Four");break;
case 5: printf("Five");break;
case 6: printf("Six");break;
case 7: printf("Seven");break;
case 8: printf("Eight");break;
case 9: printf("Nine");break;
}printf(" ");rev=rev/10;
}while(rev!=0);
while(n!=0 && n%10==0)printf("Zero ",n=n/10);
getch();
```

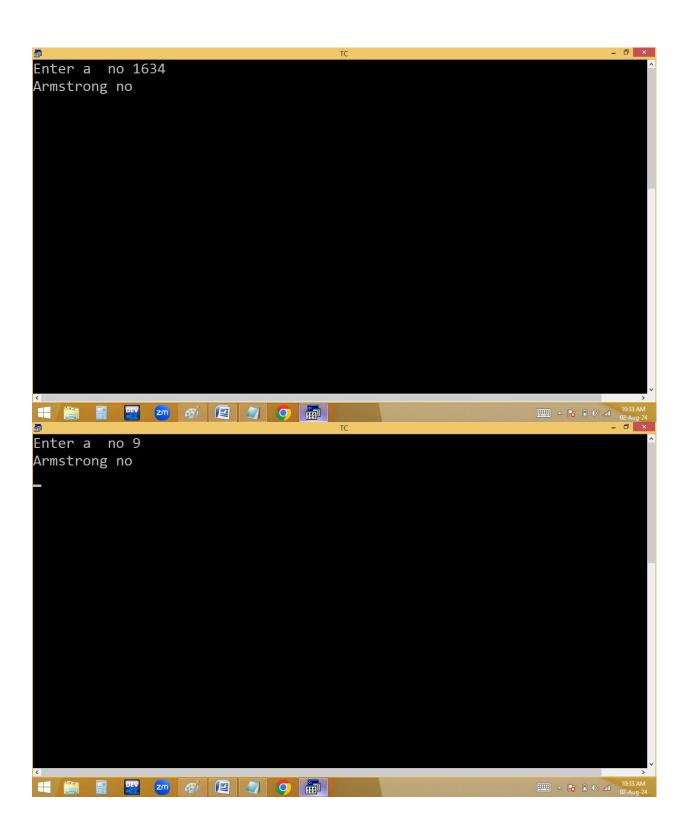


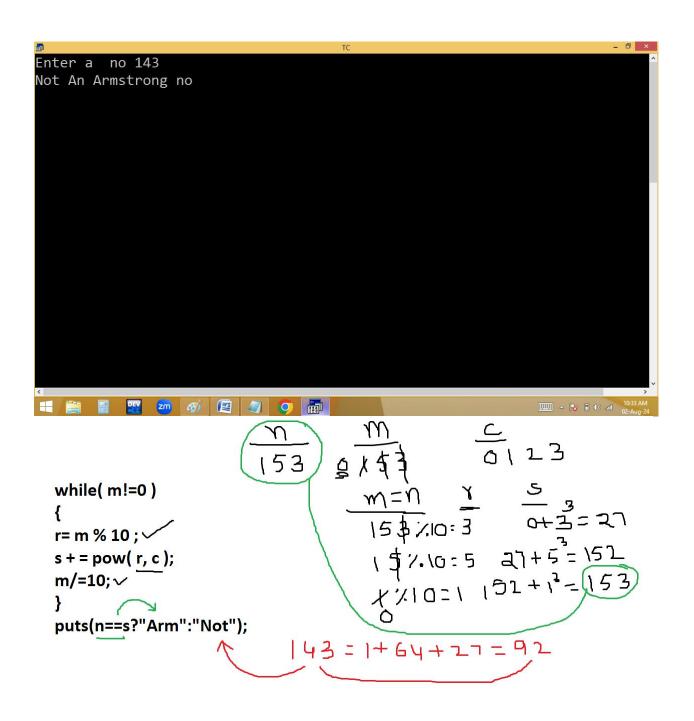
```
- 0 ×
Enter a no 0
Zero
            zm 🔊 📳 🥒 🧿
                                                        □□□ △ 😼 🗈 (I) and 10:22 AM
                               1eV
                              20x1/10=1 01/e
201/10=0 Zero
  do
  {
  switch(rev%10)
                               2/10= a TOO
  case 0: p("Zero");b;
  case 1: p("One");b;
                             ( ad 10=0 de l ane Zero Zero
  case 2: p("Two";b;
                             10=0
  case 9: p("Nine");
  }
  p(" "); rev=rev/10;
                         while(n%10=0&&n!=0)p("Zero ",n=n/10);
  while(rev);
```

## **Finding Armstrong no:**

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

```
File Edit Run Compile Project Options Debug Break/watch
    Line 6
             Col 18 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
int n,m,c=0,r,s=0; clrscr();
printf("Enter a no "); scanf("%d",&n); m=n;
while(m!=0){c++;m=m/10;}
m=n;
while(m)
r=m%10; s+=pow(r,c); m/=10;
puts(n==s?"Armstrong no":"Not An Armstrong no");
getch();
Enter a no 153
Armstrong no
```





# 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.

