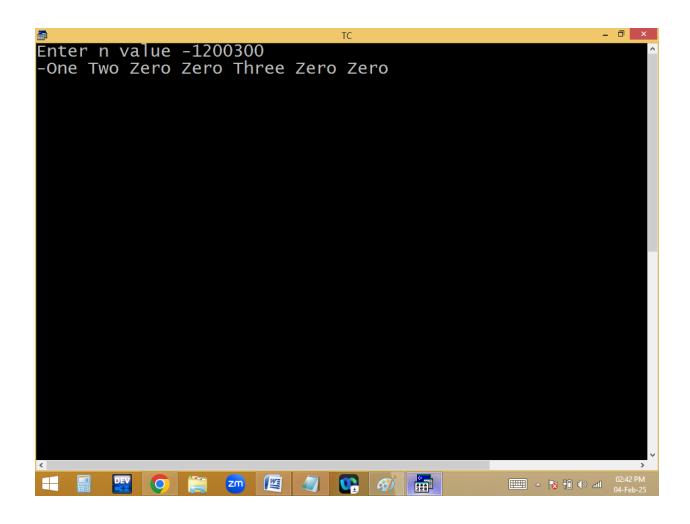
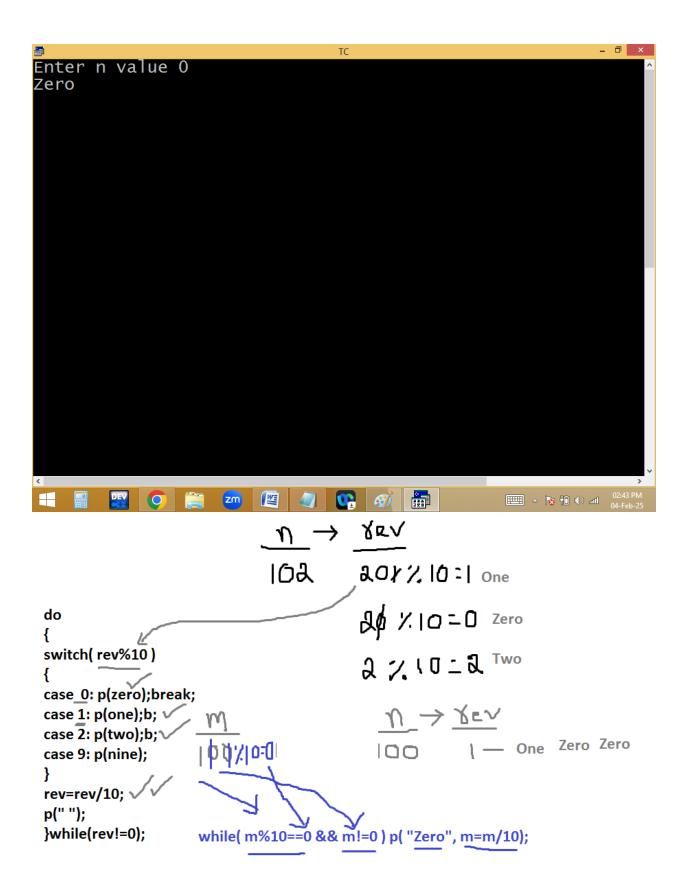
```
102 → One Zero Two
#include<stdio.h>
#include<conio.h>
void main()
{
long m,n,rev=0; int r;
clrscr();
printf("Enter n value "); scanf("%Id",&n);
if(n<0)printf("-",n=-n); m=n;</pre>
do{r=n%10;rev=rev*10+r;n=n/10;}while(n!=0);/*rev no*/
do
{
switch(rev%10)
case 0: printf("Zero");break;
case 1: printf("One");break;
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(m%10==0&&m!=0)printf("Zero ",m/=10);
getch();
}
```



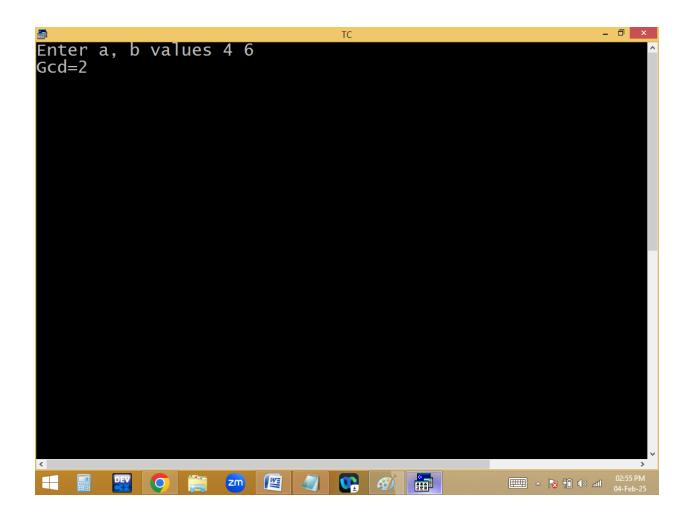


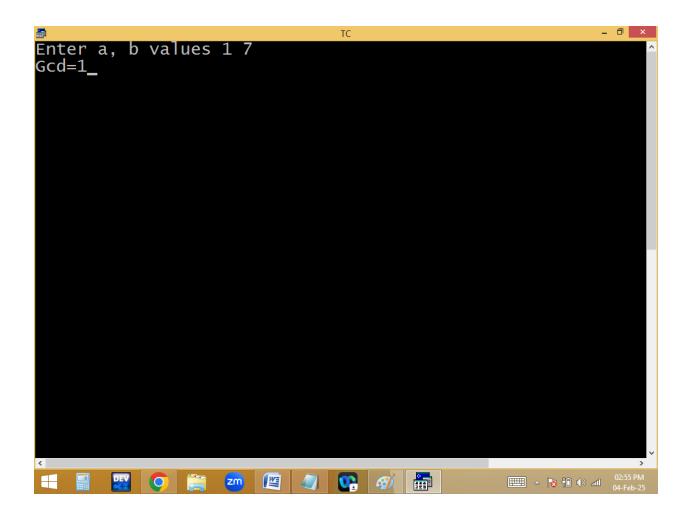
Finding gcd / hcf of given two no's:

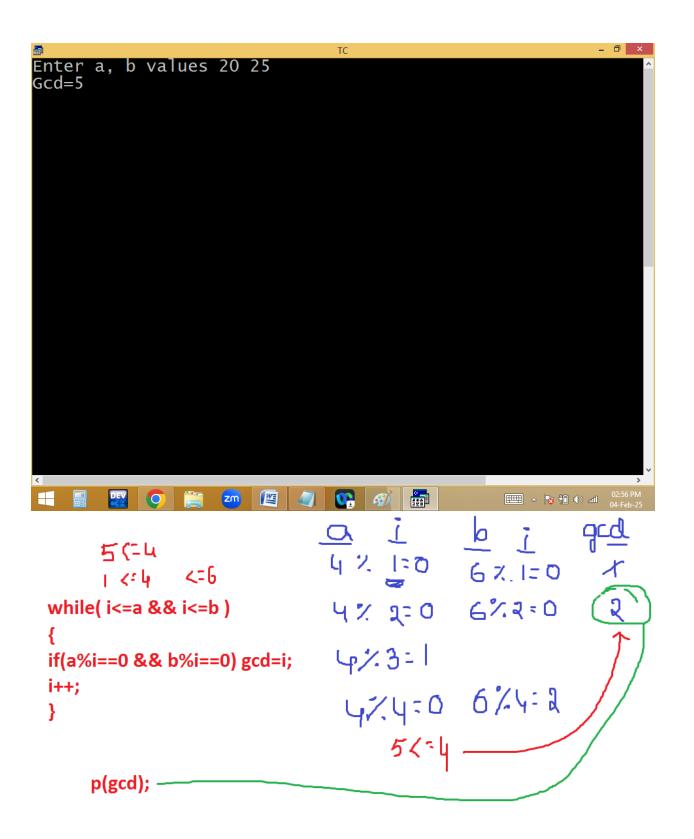
4 factors 1 2 4

6 factors 1 2 3 6

```
_ 🗇 ×
  File Edit Run Compile Project Options
                                                           Debug
       Line 15
                  Col 2 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
int a,b,i=1,gcd;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
while(i<=a && i<=b )
if(a%i==0 && b%i==0) gcd=i;
printf("Gcd=%d",gcd);
getch();
                                zm
                        □□□ △ 😼 🛍 (IV) and 02:55 PM
```



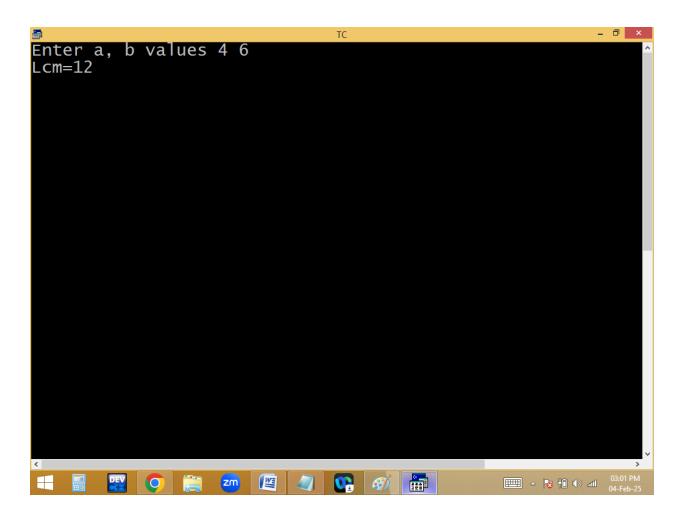




Finding Icm of given two no's:

Using gcd:

```
File Edit Run Compile
                                  Project Options
                                                          Debug
      Line 13
                  Col 21 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
int a,b,i=1,gcd;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
while(i<=a && i<=b )
if(a%i==0 && b%i==0) gcd=i;
i++:
printf("Lcm=%d",a*b/gcd);
getch();
                                       △ 😼 🗊 (I) and 03:01 PM
```



```
Enter a, b values 5 9
Lcm=45_

TC - 5 ×

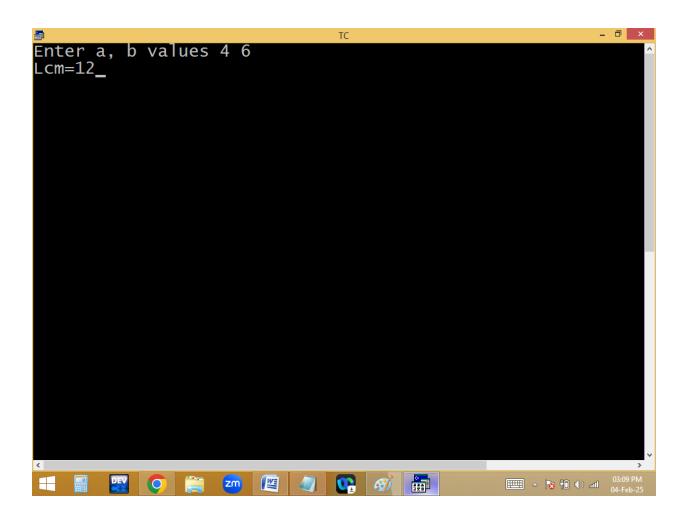
A Note  

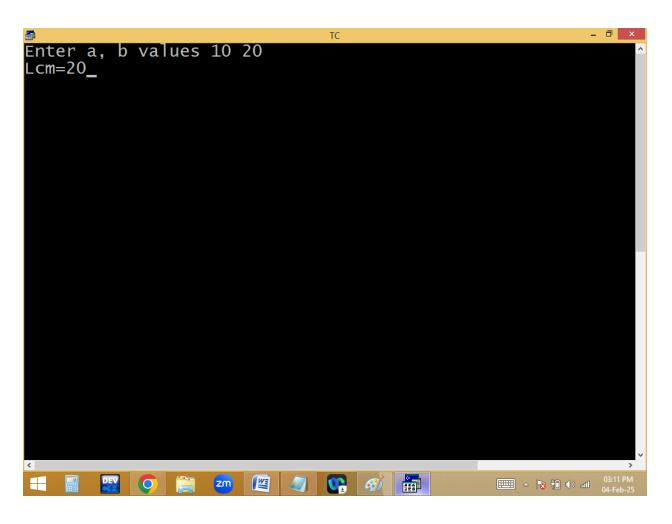
To - 5 ×

A No
```

Method2:

```
_ 🗇 ×
  File Edit Run Compile Project Options
                                                        Debug
      Line 11
                  Col 54 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
int a,b,max;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
max = a>b?a:b;
while(1)
if(max%a==0 && max%b==0){printf("Lcm=%d",max);break;}_
max++:
getch();
zm
                       □□□ △ 😼 🛍 (IV) and 03:09 PM
```





max=a>b?a:b;

```
while(1)
{
if(max%a==0 && max%b==0)
{
p("lcm=%d",max);break;
}
max++;
}
```

for loop:

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.

```
for(initialization; condition; incr/decr/update)

{
...;
for(initialization; condition; incr/decr/update)

{
...;
for(exp; exp; exp; exp,exp)

{
}
for(exp, exp; exp; exp,exp)

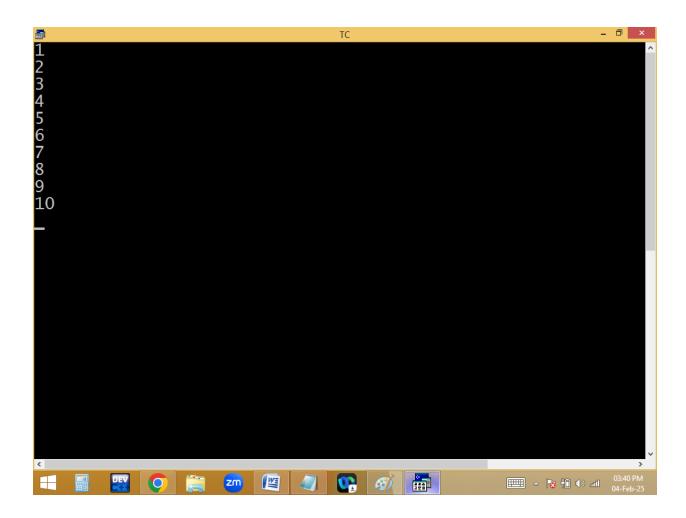
{
}
for(; exp;)

{
}
```

Printing 1..10 no's with for:

```
File Edit Run Compile Project Options Debug
Line 7 Col 18 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
clrscr();
for(i=1;i<=10;i++)
{
printf("%d\n",i);
}
getch();
}

#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
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#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F0 Make F1
#Ilolo F5 Zoom F6 Switch F7 Insert F1
#Ilol F5 Zoom F6 Sw
```



Printing given table:

Example 9th table

9*5=45

• •

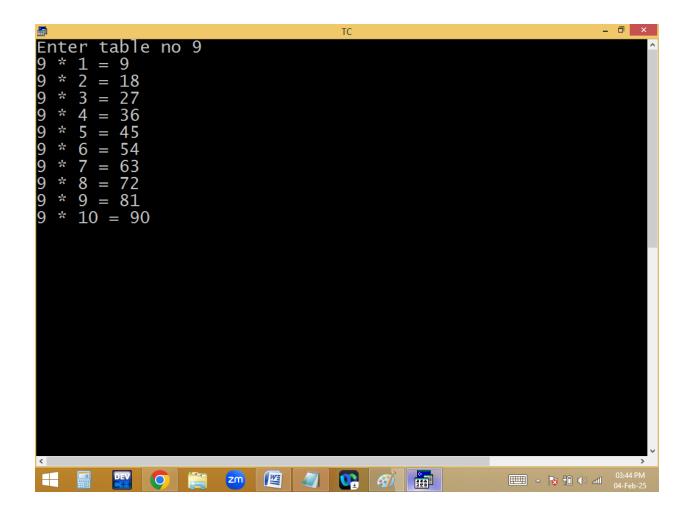
• •

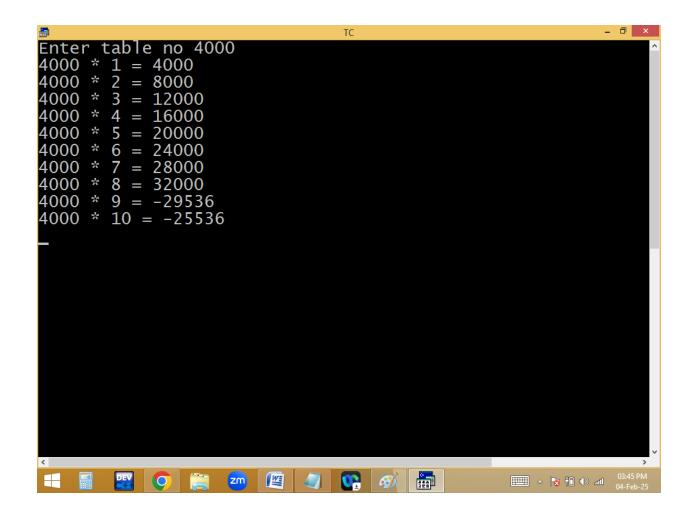
9*10=90

```
File Edit Run Compile Project Options Debug
Line 10 Col 33 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
{
int i,t;
clrscr();
printf("Enter table no "); scanf("%d",&t);
for(i=1;i<=10;i++)
{
printf("%d * %d = %d\n",t,i, t*i);
}
getch();
}

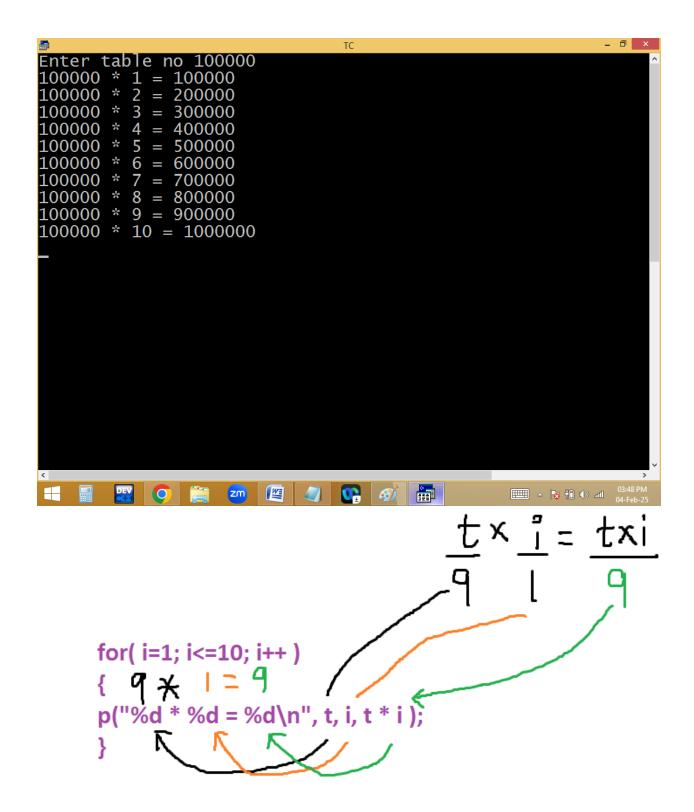
File Edit Run Compile Project Options Debug
Line 10 Col 33 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<stdio.h

#include<stdio.h
```





```
_ 🗇 ×
                                                            Debug
  File Edit Run Compile Project Options
       Line 7
                   Col 5
                            Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
long i,t;
clrscr();
printf("Enter table no "); scanf("%ld",&t);
for(ī=1;i<=10;i++)
printf("%ld * %ld = %ld\n",t,i, t*i);
getch();
                                                    □□□ △ 😼 🛍 (I) and 03:48 PM
zm
```



Finding Armstrong no

1 is a single digit no \rightarrow 1¹=1

2 is a single digit no \rightarrow 2¹=2

9 is a single digit no \rightarrow 9¹=9

153 is a three digit no \rightarrow $1^{3+}5^{3+}3^3=1+125+27=153$

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

$$1634 + 1^4 + 6^4 + 3^4 + 4^4 = 1634$$