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1.To find GCD of two numbers

```
#include <stdio.h>
int main(int argc,char *argv[])
{
   int a,b,small,i;
   a=atoi(argv[1]);
   b=atoi(argv[2]);
   if(a>b)
   small=b;
   else
   small=a;
   for(i=small;i>=1;i--)
   {
      if((a%i)==0&&(b%i)==0)
      {
         printf("%d",i);
         break;
      }
   }
 return 0;
}
```

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2. To find the lcm of two numbers

```
#include <stdio.h>
int main(int argc,char *argv[])
{
   int a,b,large;
   a=atoi(argv[1]);
   b=atoi(argv[2]);
   if(a>b)
   large=a;
   else
   large=b;
   while(1)
   {
      if((large%a)==0&&(large%b)==0)
      {
         printf("%d",large);
         break;
      }
      large++;
   }
 return 0;
}
```

3. To find the Factorial of a non negative number

```
 #include <stdio.h>
int main(int argc,char *argv[])
{
   int n,fact=1,i;
   n=atoi(argv[1]);
   for(i=1;i<=n;i++)
   {
      fact=fact*i;
   }
   printf("%d",fact);
    return 0;
}
```

4. To find the area of a circle (area=3.14*r*r), when diameter is given.

```
#include <stdio.h>
#define PI 3.14
int main(int argc,char *argv[])
{
   float dia,radius,area=0;
   dia=atoi(argv[1]);
   radius=0.5*dia;
   area=PI*radius*radius;
   printf("%.2f",area);
   return 0;
}
```

5.To check whether the given year is Leap year or not.

```
#include <stdio.h>


int main(int argc,char *argv[])
{
   int year;
   year=atoi(argv[1]);
   if(year%100==0)
   {
      if(year%400==0)
      printf("Leap year");
      else
      printf("not leap year");
   }
   else
      if(year%4==0)
      printf("leap year");
      else
      printf("not leap year");
       return 0;
}
```

6.To find the area of triangle when base and height is given.

```
#include <stdio.h>
int main(int argc,char *argv[])
{
   float height,base,area;
   height=atoi(argv[1]);
   base=atoi(argv[2]);
   area=0.5*base*height;
   printf("%.2f",area);
   return 0;
}
```

7. To print the Fibonacci series.

Input=6 Output=1 1 2 3 5 8

```
#include <stdio.h>
int main(int argc,char *argv[])
{
   int n,first=1,sec=1,next,i;
   n=atoi(argv[1]);
 for (i=0;i<n;i++)
  {
    if (i<=1)
       next=1;
    else
    {
       next=first+sec;
       first=sec;
       sec=next;
    }
    printf("%d ",next);
  }
   return 0;
}
```

8.To check whether the given number is prime or not.

```
#include <stdio.h>
int main(int argc,char *argv[])
{
  int n,i,count=0;
  n=atoi(argv[1]);
  for(i=1;i<=n;i++)
  {
    if(n%i==0)
    {
      count++;
    }
  }
   if(count==2)
   printf("prime number");
   else
   printf("not prime number ");
   return 0;
}
```

9.To check whether given number is strong number or not.

```
#include<stdio.h>
int fact(int);
int main(int argc, char *argv[])
{
   int num,d,n,res=0,i,count=0,x;
   n=atoi(argv[1]);
   num=n;
   x=num;
   while(n!=0)
   {
      n=n/10;
      count++;
   }
   for(i=0;i<count;i++){
   if(x>0)
   {
      d=x%10;
      res=res+fact(d);
      x=x/10;
   }
   }
   if(res==num)
  {
      printf("strong number");
   }
   else printf("not strong number");
```

```
    return 0;
}
int fact(int x)
{
   if(x==0)
   return 1;
   else
    return x*fact(x-1);
}
```

10. To check whether number is palindrome or not.

```
#include <stdio.h>
int main(int argc,char *argv[])
{
   int num,rev=0,digit,orig;
   num=atoi(argv[1]);
   orig=num;

   while(num>0){
  digit=num%10;
  rev=rev*10+digit;
  num=num/10;
   }

  if(orig==rev)
  {
     printf("palindrome");
 }
  else
   printf("not palindrome");
   return 0;
}
```