```
/*
Q 1. Write a C program to find LCM of two numbers.
*/
#include<stdio.h>
void main()
      int n1,n2,LCM,i,j,p,max;
      printf("Enter First number = ");
      scanf("%d",&n1);
      printf("Enter Second number = ");
      scanf("%d",&n2);
      max=n1>n2?n1:n2;
      for(i=max; ; i++)
            if(i\%n1==0 \&\& i\%n2==0)
                  LCM=i;
                  break;
            }
      }
      /*
      LCM=1;
      i=2;
      while(n1 != 1 || n2 != 1)
                                                        //printf("\nn1= \% d\nn2=
%d\n'',n1,n2);
Prepared by Sanket Ahire
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```
p=0;
            for(j=2; j <= i/2; j++)
                   if(i\%j == 0)
                   {
                         p=1;
                         break;
                   }
             }
                                                         //printf("\nPrime Number
= %d\n",i);
            if(p == 0)
             {
                   lab2:
                   if(n1\%i == 0 || n2\%i == 0)
                   {
                         LCM=LCM*i;
                         if(n1\%i == 0)
                               n1=n1/i;
                         if(n2\%i == 0)
                                n2=n2/i;
                   }
             }
                                                         //printf("\nn1= \% d\nn2=
%d\n",n1,n2);
            if(n1%i != 0 && n2%i != 0)
                   i++;
```

```
/*
Q 2. Write a C program to check whether a number is Prime number or not.
*/
#include<stdio.h>
void main()
      int n,i,prime,flag=0;
      printf("Enter numbr n = ");
      scanf("%d",&n);
      i=2;
      while (i \le n/2)
            prime=n%i;
            if (prime == 0)
                  printf("Number is Not Prime Number.");
                  flag=1;
                  break;
            i++;
      if(flag==0)
            printf("Number is Prime Number.");
      /*
```

```
/*
Q 3. Write a C program to print all Prime numbers between 1 to n.
*/
#include<stdio.h>
void main()
      int n,i,prime,j,flag;
      printf("Enter numbr n = ");
      scanf("%d",&n);
      i=2;
      printf("Prime numbers = ");
      for(i=2;i<=n;i++)
            flag=0;
            for(j=2;j<=i/2;j++)
                   prime=i%j;
                   if(prime == 0)
                         flag=1;
            if(flag==0)
                  printf(" %d ",i);
      }
}
```

```
/*
Q 4. Write a C program to find sum of all prime numbers between 1 to n.
*/
#include<stdio.h>
void main()
      int n,i,prime,j,flag,sum;
      printf("Enter numbr n = ");
      scanf("%d",&n);
      i=2;
      sum=0;
      printf("Prime numbers = ");
      for(i=2;i<=n;i++)
            flag=0;
            for(j=2;j<=i/2;j++)
                  prime=i%j;
                  if(prime == 0)
                         flag=1;
                         break;
                   }
            if(flag==0)
```

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```
printf(" %d ",i);
sum=sum+i;
}

printf("\nSum = %d",sum);
}
```

```
/*
Q 5. Write a C program to find all prime factors of a number.
*/
#include<stdio.h>
void main()
      int n,i,j,p,flag;
      printf("Enter n = ");
      scanf("%d",&n);
      printf("Prime Factors = ");
      for(j=2; j \le n; j++)
             flag=0;
             i=2;
             while (i \le j/2)
             {
                   p=j%i;
                   if(p == 0)
                    {
                          flag=1;
                          break;
                   i++;
             if(flag == 0)
                   if(( n % j ) == 0)
```

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printf(" %d ,",j);
}
}
```

```
/*
Q 6. Write a C program to check whether a number is Armstrong number or Not.
*/
#include<stdio.h>
void main()
      int n,n1,n2,i,j,digit,r,sum,pro;
      printf("Enter n = ");
      scanf("%d",&n);
      n1=n;
      n2=n;
      i=0;
      sum=0;
      while (n1 > 0)
      {
            n1=n1/10;
            i++;
      while (n2 > 0)
            r=n2%10;
            n2=n2/10;
            pro=1;
            for(j=1; j \le i ; j++)
                  pro=pro*r;
```

```
sum=sum+pro;
}
if(sum == n)
    printf("Number is Armstrong.");
else
    printf("Number is Not Armstrong.");
```

```
/*
Q 7. Write a C program to print all Armstrong numbers between 1 to n.
*/
#include<stdio.h>
void main()
      int n,n1,n2,i,j,k,r,pro,sum;
      printf("Enter n = ");
      scanf("%d",&n);
      printf("Armstrong Numbers = ");
      for(i=0; i <= n;i++)
            n1=i;
            n2=i;
            sum=0;
            j=0;
            while (n1 > 0)
            {
                  j++;
                  n1=n1/10;
            while(n2>0)
                  r=n2\%10;
                  n2=n2/10;
                  pro=1;
                  k=1;
```

```
/*
Q 8. Write a C program to check whether a number is Perfect number or Not.
*/
#include<stdio.h>
void main()
      int n,i,sum;
      printf("Enter n = ");
      scanf("%d",&n);
      sum=0;
      for(i=1; i \le n/2; i++)
      {
            if(n\%i == 0)
                  sum=sum+i;
      if(sum == n)
            printf("Number is a Perfect Number.");
      else
            printf("Number is a Not Perfect Number.");
}
```

```
/*
Q 9. Write a C program to print all Perfect numbers between 1 to n.
*/
#include<stdio.h>
void main()
      int n,i,j,sum;
      printf("Enter n = ");
      scanf("%d",&n);
      printf("Perfect Number = ");
      for(j=1; j \le n; j++)
            sum=0;
            for(i=1; i \le j/2; i++)
                   if(j\%i == 0)
                         sum=sum+i;
            if(sum == j)
                   printf(" %d,",j);
}
```

```
/*
Q 10. Write a C program to check whether a number is Strong number or not.
*/
#include<stdio.h>
void main()
      int n,n1,sum,r,i,fact;
      printf("Enter n = ");
      scanf("%d",&n);
      n1=n;
      sum=0;
      while(n1>0)
            r=n1%10;
            n1=n1/10;
            fact=1;
            for(i=2; i \le r; i++)
                  fact=fact*i;
            sum=sum+fact;
      if(sum == n)
            printf("Number is a Strong Number.");
      else
            printf("Number is a Not Strong Number.");
}
Prepared by Sanket Ahire
```

```
/*
Q 11. Write a C program to print all Strong numbers between 1 to n.
*/
#include<stdio.h>
void main()
      int n,i,j,n1,sum,r,fact;
      printf("Enter n = ");
      scanf("%d",&n);
      printf("Strong Numbers = ");
      for(i=1; i \le n; i++)
            n1=i;
            sum=0;
            for(n1; n1 > 0; n1)
                   r=n1%10;
                   n1=n1/10;
                   fact=1;
                  j=2;
                   while(j \le r)
                   {
                         fact=fact*j;
                         j++;
                   sum=sum+fact;
Prepared by Sanket Ahire
```

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```
/*
Q 12. Write a C program to print Fibonacci series up to n terms.
*/
#include<stdio.h>
void main()
      int t,t1,t2,i,n;
      printf("Enter number of terms = ");
      scanf("%d",&n);
      t1=0;
      t2=1;
      printf("Fibonacci series = 0, 1");
      for(i=3; i \le n; i++)
            t=t1+t2;
            printf(", %d ",t);
            t1=t2;
            t2=t;
      }
}
```