

```

/*
* Que.1 : print all natural numbres
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;    //getting user number
    int i = 1; //initial looping variable

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //to iterate initial value to ennd value
    while(i <= n)
    {
        printf("%d\n",i);
        i++;
    }    //end of while

    getch();
}

```

```

/*
* Que.2 : print all natural numbres in reverse order
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;    //getting user number
    int i = 1; //initial looping variable

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //to iterate initial value to end value
    while(i <= n)
    {
        printf("%d\n",n);
        n--;
    }    //end of while

    getch();
}

```

```
/*
* Que.3 : print all alphabets from a to z
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    char i = 'a';    //initial looping variable

    //to iterate a to z
    while(i <= 'z')
    {
        printf("%c\n",i);
        i++;
    }    //end of while

    getch();
}
```

```
/*
* Que.4 : print all even numbers between 1 to 100
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int i = 1;    //initial looping variable

    //to iterate 1 to 100
    while(i <= 100)
    {
        if(i % 2 == 0)
        {
            printf("%d\n",i);
        }
        i++;
    }    //end of while

    getch();
}
```

```
/*
* Que.5 : print all odd numbers between 1 to 100
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int i = 1;    //initial looping variable

    //to iterate 1 to 100
    while(i <= 100)
    {
        if(i % 2 != 0)
        {
            printf("%d\n",i);
        }
        i++;
    }    //end of while

    getch();
}
```

```

/*
* Que.6 : print all natural numbers sum getting n from user
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;    //user number
    int i = 1;    //initial looping variable
    int sum=0;    //stores sum of numbers

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //to iterate initial value to end value
    while(i <= n)
    {
        sum = sum + i;
        i++;

    }    //end of while
        printf("%d\n",sum);

    getch();
}

```

```

/*
* Que.7 : print all even numbers sum getting n from user
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;    //user number
    int i = 1;    //initial looping variable
    int sum = 0;    //stores sum of even numbers

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //to iterate initial value to end value
    while(i <= n)
    {
        if(i % 2 == 0)
        {
            sum = sum + i;
        }
        i++;
    }    //end of while
    printf("%d\n",sum);

    getch();
}

```

```

/*
* Que.8 : print all odd numbers sum getting n from user
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;    //user number
    int i = 1; //initial looping variable
    int sum = 0; //stores sum of odd numbers

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //to iterate initial value to end value
    while(i <= n)
    {
        if(i % 2 != 0)
        {
            sum = sum + i;
        }
        i++;
    }    //end of while
    printf("%d\n",sum);

    getch();
}

```



```

/*
* Que.9 : print a multiplication table for any number get by user
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;    //user number
    int i = 1;    //initial looping variable
    int mult;    //stores mutiplication

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //to iterate initial value to end value
    while(i <= 10)
    {
        mult = n * i;
        printf("%d\n",mult);
        i++;
    }    //end of while

    getch();
}

```

```

/*
* Que.10: count number of digits in a given number
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;    //user number
    int i = 0;    //initial looping variable

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //to iterate initial value to end value
    while(n != 0)
    {
        n = n/10;
        i++;

    }    //end of while
    printf("%d\n",i);

    getch();
}

```

```

/*
* Que.11: print first and last digit of number
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;          //getting user number
    int ld , fd ;   //stores last and first digit of number

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);
    fd = n;

    // to iterate initial value to end value
    while(fd >= 10)
    {
        fd = fd/10;
    } // end of while()

    printf("first digit of a number is : %d \n",fd);

    ld = n%10;
    printf("last digit of a number is : %d \n",ld);

    getch();
}

```

```

/*
* Que.12: print sum of first and last digit of number
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;          //getting user number
    int ld , fd ;   //stores last and first digit of number

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);

    fd = n ;

    // to iterate initial value to end value
    while(fd >= 10)
    {
        fd = fd/10;
    } // end of while()

    printf("first digit of a number is : %d \n",fd);

    ld = n%10;
    printf("last digit of a number is : %d \n",ld);

    printf("sum of first and last digit is : %d",fd+ld);

    getch();
}

```

```

/*
 * Que.13: swap the first and last digit of a number
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n; //getting numner from user
    int x , y; //stores last and first digit of original number
    int rmd; //stores remainder
    int temp = 0; //reverse of number

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    //gets the last digit of original number
    x = n%10;
    //printf("%d\n",x);
    n = n/10;
    //printf("%d\n",n);

    //reverse the number n
    while(n != 0)
    {
        rmd = n%10;
        temp = temp * 10 + rmd;
        n = n/10;
    }
    //printf("%d\n",temp);

    //gets the first digit of original number
    y = temp%10;
    //printf("%d\n",y);
    temp = temp/10;
    //printf("%d\n",temp);

    //temp number multiply by 10 and add last digit of original number
    temp = temp * 10 + x;
    //printf("%d\n",temp);

    //reverse the number temp
    while(temp != 0)
    {
        rmd = temp%10;
        n = n * 10 + rmd;
        temp = temp/10;
    }
    //printf("%d\n",n);

    //n number multiply by 10 and add first digit of original number

```

```
    n = n * 10 + y;  
    printf("after swapping first digit and last digit the number becomes : %d\n",n);  
    getch();  
}
```

```

/*
* Que.14: print sum of digits of number
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;          //getting user number
    int sum = 0;    //to store sum
    int r;          // to store remainder of number

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);

    // to iterate initial value to end value
    while(n != 0)
    {
        r = n%10;
        sum = sum + r;
        n = n/10;
    } // end of while()

    printf("sum of digits of a number is : %d \n",sum);

    getch();
}

```

```

/*
 * Que.15: print product of digits of number
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n;          //getting user number
    int prdt = 1;   //to store product
    int r;          // to store remainder of number

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);

    // to iterate initial value to end value
    while(n != 0)
    {
        r = n%10;
        prdt = prdt * r;
        n = n/10;
    } // end of while()

    printf("product of digits of a number is : %d \n",prdt);

    getch();
}

```



```

/*
* Que.16: print reverse of number
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;          //getting user number
    int rvs;        //to store reverse number of original number
    int rmd;        // to store remainder of number

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);

    // to iterate initial value to end value
    for(rvs = 0 ; n != 0 ; n/=10)
    {
        rmd = n%10;
        rvs = rvs * 10 + rmd;

    } // end of for()

    printf("reverse of a number is : %d \n",rvs);

    getch();
}

```

```

/*
 * Que.17: show the number is palindrome or not
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n;          //getting user number
    int rvs = 0;    //to store reverse number of original number
    int rmd;        // to store remainder of number
    int temp;       //to store temporary value

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);
    temp = n;

    // to iterate initial value to end value
    while(temp != 0)
    {
        rmd = temp%10;
        rvs = rvs * 10 + rmd;
        temp = temp/10;
    } // end of while()

    printf("reverse of a number is : %d \n",rvs);

    if(rvs == n)
        printf("its a palindrome number");
    else
        printf("it is not a palindrome number");

    getch();
}

```

```

/*
 * Que.18: print frequency of each digit
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n;          //getting user number
    int rmd1 , rmd2 ; // to store remainder of number
    int temp , temp1; //to store temporary value
    int cnt ;       //for counting

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);

    temp1 = n;

    while(n != 0)
    {
        cnt = 0;
        temp = temp1;
        rmd1 = n%10;
        while(temp > 0)
        {
            rmd2 = temp%10;
            if(rmd1 == rmd2)
            {
                cnt++;
            }

            temp = temp/10;
        } // end of while(temp > 0)
        printf("frequency of %d = %d\n",rmd1,cnt);
        n = n/10;

    } // end of while(n != 0)

    getch();
}

```

```

/*
* Que.19: enter a number and print it in words
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n;          //getting user number
    int rvs = 0;    //to store reverse number of original number
    int rmd;        // to store remainder of number
    int temp;       //to store temporary value

    // reading value of n from end user
    printf("please , enter a integral number: ");
    scanf("%d",&n);
    temp = n;

    // to iterate initial value to end value also we find here reverse of a number
    while(temp != 0)
    {
        rmd = temp%10;
        rvs = rvs * 10 + rmd;
        temp = temp/10;
    } // end of while()

    while(rvs != 0)
    {
        rmd = rvs%10; // getting last digit of a number

        switch(rmd)
        {
            case 1 : printf("one\t");break;
            case 2 : printf("two\t");break;
            case 3 : printf("three\t");break;
            case 4 : printf("four\t");break;
            case 5 : printf("five\t");break;
            case 6 : printf("six\t");break;
            case 7 : printf("seven\t");break;
            case 8 : printf("eight\t");break;
            case 9 : printf("nine\t");break;
            case 0 : printf("zero\t");break;
            default :printf("invalid number\t");
        } // end of switch()

        rvs = rvs/10; //removing last digit of a number
    }
    getch();
}

```

```
/*
* Que.20: print all ASCII values
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int ch; //to print every character of ASCII value

    for(ch = 0 ; ch < 256 ; ch++)
    {
        printf("%c = %d\n",ch,ch);
    }

    getch();
}
```

```

/*
* Que.21: print power of number
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //user value
    int pwr = 1; // to stores power of number
    int exp; //exponent number

    printf("please , enter a integral number\n");
    scanf("%d",&n);
    printf("please , enter a exponent number\n");
    scanf("%d",&exp);

    for( ; exp != 0 ; exp--)
    {
        pwr = pwr * n;
    }

    printf("power of number is %d",pwr);
    getch();
}

```

```
/*
* Que.22: print all factors of a number
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting from user side
    int i; //looping variable

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    // iterates 1 to n for finding divisors of n
    for(i = 1 ; i <= n ; i++)
    {
        if(n%i == 0)
        {
            printf("%d\n",i);
        }
    }

    getch();
}
```

```

/*
 * Que.23: print factorial of a number
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n; //getting from user side
    int i; //looping variable

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    // iterates 1 to n for finding factorial of n
    for(i = n-1 ; i != 0 ; i--)
    {
        n = n * i;
    }

    printf("factorial is %d",n);

    getch();
}

```



```

/*
 * Que.24: print GCD of two numbers
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n1 , n2; //getting from user side
    int i = 1; //looping variable
    int gcd; //stores the GCD

    //reading value of n from user
    printf("please , enter two integral number : ");
    scanf("%d%d", &n1 , &n2);

    // iterates for finding GCD of n1 and n2
    while(n1 >= i && n2 >= i)
    {
        if(n1%i == 0 && n2%i == 0)
            gcd = i;
        i++;
    }
    printf("gcd is %d",gcd);

    getch();
}

```

```

/*
* Que.25: print LCM of two numbers
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n1 , n2; //getting from user side
    int i = 1; //looping variable
    int gcd; //stores the GCD
    int lcm; //stores the LCM

    //reading value of n from user
    printf("please , enter two integral number : ");
    scanf("%d%d", &n1 , &n2);

    // iterates for finding GCD of n1 and n2
    while(n1 >= i && n2 >= i)
    {
        if(n1%i == 0 && n2%i == 0)
            gcd = i;
        i++;
    }

    // finding lcm
    lcm = (n1*n2)/gcd;
    printf("lcm is %d",lcm);

    getch();
}

```

```

/*
 * Que.26: check given number is prime or not
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n; //getting number from user
    int i = 1; //looping variable
    int cnt = 0; //counting the numbers which divisibale by user number

    printf("please , enter a number\n");
    scanf("%d",&n);

    while(i <= n)
    {
        if(n%i == 0)
        {
            cnt++;
        }
        i++;
    }

    if(cnt == 2)
        printf("%d is prime number",n);
    else
        printf("%d is not a prime number",n);

    getch();
}

```

```

/*
* Que.27: print all prime numbers upto n(user value)
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user
    int i,j; //looping variable
    int cnt = 0;

    printf("please , enter a number\n");
    scanf("%d",&n);

    // it iterates 1 to n
    for(j = 1 ; j<= n ; j++)
    {
        cnt = 0;
        // it iterates 1 to j and check j is divisible by how many numbers
        for(i = 1 ; i <= j ; i++)
        {
            if(j%i == 0)
            {
                cnt++;
            }
        }
        if(cnt == 2) //prime numbers have only two divisor factors
        {
            printf("%d\n",j);
        }
    }

    getch();
}

```

```

/*
* Que.28: print sum of all prime numbers upto n(user value)
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user
    int i,j; //looping variable
    int cnt = 0; //counts the variable which are prime
    int sum = 0; // stores the sum of prime numbers

    printf("please , enter a number\n");
    scanf("%d",&n);

    // it iterates 1 to n
    for(j = 1 ; j<= n ; j++)
    {
        cnt = 0;
        // it iterates 1 to j and check j is divisible by how many numbers
        for(i = 1 ; i <= j ; i++)
        {
            if(j%i == 0)
            {
                cnt++; //if j divisible by any number cnt variable count the
numbers
            }
        }
        if(cnt == 2) //prime numbers have only two divisor factors
        {
            sum = sum + j; //here only prime numbers are add into sum variable
        }
    }
    printf("%d",sum);

    getch();
}

```

```

/*
* Que.29: all prime factors of n(user value)
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user
    int i,j; //looping variable
    int cnt = 0; //counts the variable which are prime
    int sum = 0; // stores the sum of prime numbers

    printf("please , enter a number\n");
    scanf("%d",&n);

    // it iterates 1 to n
    for(j = 1 ; j<= n ; j++)
    {
        cnt = 0;
        // it iterates 1 to j and check j is divisible by how many numbers
        for(i = 1 ; i <= j ; i++)
        {
            if(j%i == 0)
            {
                cnt++; //if j divisible by any number cnt variable count the
numbers
            }
        }
        if(cnt == 2) //prime numbers have only two divisor factors
        {
            if(n%j == 0) //here n is completely divisible by j prime number then
j is a prime factor of n
            {
                printf("%d\n",j);
            }
        }
    }

    getch();
}

```

```

/*
* Que.30: check the number is armstrong or not
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user
    int i , j; //looping variable
    int temp; //temporary variable
    int rmd; // to store remainder
    int sum = 0; //to stores the sum
    int pwr = 1; //stores the power of digit

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    temp = n;

    //to iterate number of digits in a given number(n)
    for(i = 0 ; temp != 0 ; i++)
    {
        temp = temp/10;
    }
    j = i;

    // to iterate gettings armstrong number
    for(temp = n ; temp != 0 ; temp = temp/10)
    {
        rmd = temp%10;
        pwr = 1;

        for(i = j ; i != 0 ; i--)
        {
            pwr = pwr * rmd;
        }
        sum = sum + pwr;
    }

    if(n == sum)
        printf("%d is a armstong number",sum);
    else
        printf("%d is not armstrong number",n);

    getch();
}

```

```

/*
* Que.31: print 1 to n armstrong numbers
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user
    int i , j , k; //looping variable
    int temp; //temporary variable
    int rmd; // to store remainder
    int sum = 0; //to stores the sum
    int pwr = 1; //stores the power of digit

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    for(k = 1 ; k <= n ; k++)
    {
        temp = k;
        sum = 0;

        //to iterate number of digits in a given number(n)
        for(i = 0 ; temp != 0 ; i++)
        {
            temp = temp/10;
        }
        j = i;

        // to iterate gettings armstrong number
        for(temp = k ; temp != 0 ; temp = temp/10)
        {
            rmd = temp%10;
            pwr = 1;

            for(i = j ; i != 0 ; i--)
            {
                pwr = pwr * rmd;
            }
            sum = sum + pwr;
        }

        if(k == sum)
            printf("%d\n",k);
    }

    getch();
}

```



```

/*
* Que.32: check the number is perfect or not
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user
    int i; //looping variable
    int sum = 0; //to stores sum of numbers which divisible by n(user value)

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    // to iterate initial value upto end value
    for(i = 1 ; i < n ; i++)
    {
        if(n%i == 0) // n is completely divisible by any number
        {
            sum = sum + i;
        }
    }
    if(n == sum)
        printf("%d a pefect number",sum);
    else
        printf("%d is not a perfect number",n);

    getch();
}

```

```

/*
* Que.33: print the perfect number 1 to n
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user
    int i,j; //looping variable
    int sum = 0; //to stores sum of numbers which divisible by n(user value)

    //reading value of n from user
    printf("please , enter a integral number : ");
    scanf("%d",&n);

    for(j = 1 ; j <= n ; j++)
    {
        sum = 0;

        // to iterate initial value upto end value
        for(i = 1 ; i < j ; i++)
        {
            if(j%i == 0) // n is completely divisible by any number
            {
                sum = sum + i;
            }
        }
        if(j == sum)
            printf("%d\n",sum);
    }

    getch();
}

```

```

/*
 * Que.34: check number is strong number or not
 * owner : Shreya Kailas Saskar
 * batch : PPA9
 */

// solution :

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

void main()
{
    int n; //getting number from user side
    int i,j; //loopig variable
    int rmd; //stores remainder
    int fact; //stores factorial of a digit
    int sum = 0; //stores the sum of all factorial
    int num; //stores value of n

    //reading value of n from user
    printf("please , enter a numerical number : ");
    scanf("%d",&n);

    num = n;

    //logic for separte last digit of a number
    for(i = 1 ; n != 0 ; i++)
    {
        rmd = n%10;
        fact = 1;
        //logic for getting factorial of a digit
        for(j = 1 ; j <= rmd ; j++)
        {
            fact = fact * j;
        }
        sum = sum + fact; //it adds the factorial of each digit in a given number
        n = n/10;
    }

    //checks the given number is strong or not
    if(num == sum)
        printf("%d is a strong number",sum);
    else
        printf("%d is not a strong number",num);

    getch();
}

```

```

/*
* Que.35: print all strong numbers between 1 to n
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

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

void main()
{
    int n; //getting number from user side
    int i,j,k; //loopig variable
    int rmd; //stores remainder
    int fact; //stores factorial of a digit
    int sum = 0; //stores the sum of all factorial
    int num; //stores value for temporary

    //reading value of n from user
    printf("please , enter a numerical number : ");
    scanf("%d",&n);

    // logic for print 1 to n strong numbers
    for(k = 1 ; k <= n ; k++)
    {
        sum = 0;
        num = k;

        //logic for seperate last digit of a number
        for(i = 1 ; num != 0 ; i++)
        {
            rmd = num%10;
            fact = 1;
            //logic for getting factorial of a digit
            for(j = 1 ; j <= rmd ; j++)
            {
                fact = fact * j;
            }
            sum = sum + fact; //it adds the factorial of each digit in a given number
            num = num/10;
        }

        //checks the given number is strong or not
        if(sum == k)
        {
            printf("%d\n",sum);
        }
    }

    getch();
}

```