**PROGRAM-6:**

**WAP to implement transposition cipher without key in C++.**

#include<stdio.h>

#include<string.h>

int main()

{

char str[100],temp[50][100];

int i,j=0,k=0,l,n;

printf("Enter the plain text:\n");

scanf("%s",str);

printf("Enter the no of columns: ");

scanf("%d",&n);

l=strlen(str);

printf("%c ",str[0]);

temp[0][0]=str[0];

k=1;

for(i=1;i<l;i++)

{

if(i%n==0)

{printf("\n");j++;k=0;}

temp[j][k++]=str[i];

printf("%c ",str[i]);

}

temp[j][k]='\0';

printf("\nCipher text is: ");

for(i=0;i<n;i++)

{

for(k=0;k<j+1;k++)

printf("%c",temp[k][i]);

}

return 0;

}

**OUTPUT**

Enter the plain text:

aerodynamic

Enter the no of columns: 3

a e r

o d y

n a m

i c

Cipher text is: aoniedacrym