

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