# Experiment No 7

**Implement and write advantages of Poly-alphabetic Cipher.**

#include<stdio.h>

#include<conio.h> #include<string.h> void main() {

char msg[30],key[30],k[20],ct[20],pt[20]; int lenm,lenk,i,j; //clrscr();

printf("Enter Message : "); gets(msg); printf("Enter Key : "); gets(key); lenm=strlen(msg); lenk=strlen(key); for(i=0;i<lenm;i++,j++)

{ if(j==lenk)

{ j=0; } k[i]=key[j];

}

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

{

ct[i]=((msg[i]+k[i])%26)+'A';

}

ct[i]='\0'; for(i=0;i<lenm;i++)

{

pt[i]=(((ct[i]-k[i])+26)%26)+'A';

} pt[i]='\0';

printf("\nEncrypted Message : %s", ct); printf("\nDecrypted Message : %s", pt); getch();

}

