**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();

}

