**Information Security**

* **Practical-4: Poly alphabetic cipher**

**CODE:**

#include<stdio.h>

#include<conio.h>

#include<string.h>

int main()

{

char plain[20] = {'\0'}, ciper[20] = {'\0'}, key[20] = {'\0'}, rt[20] = {'\0'};

int i,j;

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

scanf("%s",plain);

printf("\n Enter the key:");

scanf("%s",key);

j=0;

for(i=strlen(key);i<strlen(plain);i++)

{

if(j==strlen(key))

{

j=0;

}

key[i]=key[j];

j++;

}

printf("\n----------------------\n");

for(i=0;i<strlen(plain);i++)

{

ciper[i]=(((plain[i]-97)+(key[i]-97))%26)+97;

}

printf("\n Cipher text is:%s",ciper);

for(i=0;i<strlen(ciper);i++)

{

if(ciper[i]<key[i])

{

rt[i]=26+((ciper[i]-97)-(key[i]-97))+97;

}

else

rt[i]=(((ciper[i]-97)-(key[i]-97))%26)+97;

}

printf("\n \n Plain text is:%s",rt);

getch();

}

**Output:**

