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++)</pre>
        if(j==strlen(key))
```

```
j=0;
      key[i]=key[j];
      j++;
   printf("\n----\n");
for(i=0;i<strlen(plain);i++)</pre>
{
  ciper[i]=(((plain[i]-97)+(key[i]-97))%26)+97;
printf("\n Cipher text is:%s",ciper);
for(i=0;i<strlen(ciper);i++)</pre>
{
      if(ciper[i]<key[i])</pre>
        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: