#include<stdio.h>

int main(){

printf("Symmeteric Key cryptography : Roll no 32169\n");

char str[100];

printf("\nEnter string to encrypt: ");

gets(str);

printf("\nEnter key: ");

int key1,key2,i,j;

scanf("%d",&key1);

for(i = 0; (i < 100 && str[i] != '\0'); i++) {

str[i] = str[i] + key1;

}

printf("\nEncrypted String is : %s", str);

printf("\nEnter Key To decrypt");

scanf("%d",&key2);

if(key1==key2){

for(j=0;(j<100 && str[j] != '\0'); j++){

str[j] -= key1;

}

printf("\nDecrypted String: %s", str);

}

else{

printf("\nInvalid Key");

}

return 0;

}