9. Implement data encryption and data decryption

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

void main()

{

int i,ch,lp;

char cipher[50],plain[50];

char key[50];

while(1)

{

printf("\n.....MENU....\n");

printf("\n 1.Data Encryption\t \n \n 2.Data Decryption\t \n \n3.exit");

printf("\n Enter your choice:");

scanf("%d",&ch);

switch(ch)

{

case 1:printf("\n Data Encryption");

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

fflush(stdin);

scanf("%s",plain);

printf("Enter the encryption key:");

scanf("%s",key);

lp=strlen(key);

for(i=0;plain[i]!='\0';i++)

cipher[i]=plain[i]^lp;

cipher[i]='\0';

printf("\n The encrypted text is :");

puts(cipher);

break;

case 2:

printf("\n Data Decryption");

for(i=0;cipher[i]!='\0';i++)

plain[i]=cipher[i]^lp;

printf("\n Decryption text is:");

puts(plain);

break;

case 3:exit(0);

}

}

}

Text

Description automatically generated