***Program for ceaser cipher***

#include<stdio.h>

#include<conio.h>

#include<string.h>

int main()

{

int i,l,opt,key;

printf("\n\t\t\* Program for ceaser cipher \*");

do

{

char c[100], ch;

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

printf("\n\n\t Enter the message : ");

scanf("%s",c);

l=strlen(c);

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

scanf("%d",&key);

// if key >= 26, use modulo 26 to wrap back to Aa after Zz

if (key >= 26)

{

key = (key % 26);

}

printf("\n\t Select the option : 1.Encryption \t 2.Decryption \t 3.Exit -> ");

scanf("%d",&opt);

if(opt==1)

{

for(i=0;i<l;i++)

{

ch = c[i];

if(ch >= 'a' && ch <= 'z')

{

ch = ch + key;

if(ch > 'z')

{

ch = ch - 'z'+ 'a' - 1;

}

c[i] = ch;

}

else if(ch >= 'A' && ch <= 'Z')

{

ch = ch + key;

if(ch > 'Z')

{

ch = ch - 'Z' + 'A' - 1;

}

c[i] = ch;

}

}

printf("\n\n\t The Encrypted message is: %s", c);

}

else if(opt==2)

{

for(i=0;i<l;i++)

{

ch = c[i];

if(ch >= 'a' && ch <= 'z')

{

ch = ch - key;

if(ch > 'z' || ch<'a')

{

ch = ch + 'z'- 'a' + 1;

}

c[i] = ch;

}

else if(ch >= 'A' && ch <= 'Z')

{

ch = ch - key;

if(ch > 'Z' || ch<'A')

{

ch = ch + 'Z' - 'A' + 1;

}

c[i] = ch;

}

}

printf("\n\t The Decrypted message is: %s", c);

}

else if(opt==3)

{

printf("\n\t Exiting.. press any key. ");

getch(); exit(0);

}

else{

printf("\n\t Sorry. Invalid option..");

}

}while(i>3);

getch();

}

**Output :**

\* Program for ceaser cipher \*

-- -- -- -- -- -- -- -- --

Enter the message : xyzabcd

Enter the key : 3

Select the option : 1.Encryption 2.Decryption 3.Exit -> 1

The Encrypted message is: abcdefg

-- -- -- -- -- -- -- -- --

Enter the message : abcdxyz

Enter the key : 3

Select the option : 1.Encryption 2.Decryption 3.Exit -> 2

The Decrypted message is: xyzauvw

-- -- -- -- -- -- -- -- --

Enter the message : qwertyuiop

Enter the key : 3

Select the option : 1.Encryption 2.Decryption 3.Exit -> 5

Sorry. Invalid option..

-- -- -- -- -- -- -- -- --

Enter the message : zxcvbnm

Enter the key : 3

Select the option : 1.Encryption 2.Decryption 3.Exit -> 3

Exiting.. press any key.