**Task 4 : Character Stuffing**

#include<stdio.h>

#include<string.h>

int main()

{

char source[' '],char\_stuff[' '],char\_destuff[' '];

int i=0,j=0,k=0;

printf("Enter plain text");

gets(source);

char\_stuff[0]='d', char\_stuff[1]='l' , char\_stuff[2]='e', char\_stuff[3]='s' , char\_stuff[4]='t', char\_stuff[5]='x';

j=6;

for(k=0;k<strlen(source);)

{

if(source[k]=='d'&&source[k+1]=='l'&&source[k+2]=='e')

{

char\_stuff[j++]='d';char\_stuff[j++]='l';char\_stuff[j++]='e';

char\_stuff[j++]='d';char\_stuff[j++]='l';char\_stuff[j++]='e';

k+=3;

}

else{

char\_stuff[j++]=source[k++];

}

}

char\_stuff[j++]='d';char\_stuff[j++]='l';char\_stuff[j++]='e';

char\_stuff[j++]='s';char\_stuff[j++]='t';char\_stuff[j++]='x';

char\_stuff[j]=0;

printf("After character stuffing:");

puts(char\_stuff);

j=0;

for(i=6;i<(strlen(char\_stuff)-6);)

{

if(char\_stuff[i]=='d'&&char\_stuff[i+1]=='l'&&char\_stuff[i+2]=='e')

{

char\_destuff[j++]='d'; char\_destuff[j++]='l'; char\_destuff[j++]='e';

i=i+6;

}

else{

char\_destuff[j++]=char\_stuff[i++];

}

}

char\_destuff[j]=0;

printf("\nAfter character de-stuffing:");

puts(char\_destuff);

}