EXP-7.Implement a C program to eliminate left factoring

CODE:

#include<stdio.h>

#include<string.h>

int main()

{

char gram[20],part1[20],part2[20],modifiedGram[20],newGram[20],tempGram[20];

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

printf("Enter Production : S->");

gets(gram);

for(i=0;gram[i]!='|';i++,j++)

part1[j]=gram[i];

part1[j]='\0';

for(j=++i,i=0;gram[j]!='\0';j++,i++)

part2[i]=gram[j];

part2[i]='\0';

for(i=0;i<strlen(part1)||i<strlen(part2);i++)

{

if(part1[i]==part2[i])

{

modifiedGram[k]=part1[i];

k++;

pos=i+1;

}

}

for(i=pos,j=0;part1[i]!='\0';i++,j++){

newGram[j]=part1[i];

}

newGram[j++]='|';

for(i=pos;part2[i]!='\0';i++,j++){

newGram[j]=part2[i];

}

modifiedGram[k]='X';

modifiedGram[++k]='\0';

newGram[j]='\0';

printf("\n S->%s",modifiedGram);

printf("\n X->%s\n",newGram);

}

