**/\* Program No.:**

**Aim: WAP to remove left recursion from a given grammar.**

**\*/**

#include<stdio.h>

#include<string.h>

#include<conio.h>

void main()

{

clrscr();

char gram[50],sym,temp[50][2];

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

printf("\n\n\tEnter the production: ");

scanf("%s",&gram);

sym=gram[0];

if(gram[3]>=65&&gram[3]<=91)

if(gram[3]!=sym)

flag=1;

for(i=4,j=0,k=0;i<strlen(gram);i++)

{

if(gram[i]=='|')

tr=1;

else if(tr==1)

temp[0][j++]=gram[i];

else

temp[1][k++]=gram[i];

}

temp[0][j]='\0';

temp[1][k]='\0';

if(flag==1)

printf("\n\n\tProduction does not have any left recursion.");

else

{

printf("\n\n\tAfter left recursion:\n\n\t\t");

printf("%c->%s%c'",sym,temp[0],sym);

printf("\n\t\t%c'->%s%c'|^",sym,temp[1],sym);

}

getch();

}

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**Name - Rohit Aggarwal**

**Roll No. - 7CS-097**

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