**/\* Program No.:**

**Aim: WAP to check whether a string is generated from a given grammer or not.**

**\*/**

#include<stdio.h>

#include<conio.h>

#include<string.h>

char str[50],gram[10][50];

int i,j=0,no;

void func(int n)

{char temp;

int t,w;

for(t=3;t<strlen(gram[n]);t++)

{if(gram[n][t]>=97&&gram[n][t]<=122)

str[j++]=gram[n][t];

else

{temp=gram[n][t];

for(w=0;w<no;w++)

{if(gram[w][0]==temp&&w!=n)

func(w);}

}}

}

void main()

{clrscr();

char chk[50];

printf("\n\tNo. of productions: ");

scanf("%d",&no);

printf("\n\tEnter the productions of grammar\n\n");

for(i=0;i<no;i++)

{printf("\t\tProduction %d: ",i+1);

scanf("%s",&gram[i]);

}

func(0);

str[j]='\0';

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

scanf("%s",&chk);

if(strcmp(chk,str)==0)

printf("\n\n\tThe string is valid as per given grammar.");

else

printf("\n\n\tThe string is not valid as per given grammar.");

getch();

}

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