**/\* Program No.:**

**Aim: WAP to check whether a given expression follows the grammer (a^n.b^n).**

**\*/**

#include<stdio.h>

#include<conio.h>

#include<string.h>

void main()

{

clrscr();

char \*exp;

int flag=0,order=0,count\_a=0,count\_b=0;

printf("\n\t\tEnter the expression: ");

gets(exp);

if(exp[0]!='a')

flag=1;

else

{

for(int i=0;i<strlen(exp);i++)

{

if(exp[i]=='a'&&order==0)

count\_a++;

else if(exp[i]=='b')

{

count\_b++;

order=1;

}

else

{

flag=1;

break;

}

}

}

if(flag==1||count\_a!=count\_b)

printf("\n\n\t\tExpression is not as per grammer (a^n.b^n).");

else if(count\_a==count\_b)

printf("\n\n\t\tExpression is as per grammer (a^n.b^n).");

getch();

}

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