*N.Hari krishna reddy*

*192110021*

*CHECKING WHETHER STRING BELONGS TO THE GRAMMAR*

*#include<stdio.h>*

*#include<string.h>*

*int main()*

*{*

*char s[100];*

*int i,flag,flag1;*

*int l;*

*printf("enter the string to check: ");*

*scanf("%s",s);*

*l=strlen(s);*

*flag=1;*

*for(i=0;i<l;i++)*

*{*

*if(s[i]!='0' && s[i]!='1')*

*{*

*flag=0;*

*}*

*}*

*if(flag==1)*

*printf("string is valid\n");*

*else*

*printf("string is not valid\n");*

*if(flag==1)*

*{*

*flag1=0;*

*for(i=0;i<l-2;i++)*

*{*

*if(s[i]=='1')*

*{*

*if(s[i+1]=='0' && s[i+2]=='1')*

*{*

*flag1=1;*

*printf("substring 101 exists,string is accepted\n");*

*break;*

*}*

*}*

*}*

*if(flag1==0)*

*printf("substring 101 does not exist.string is not accepted\n");*

*}*

*}*

