**CHECKING WHETHER A STRING BELONGS TO A GRAMMAR**

**Ex 4 a AIM :**

To write a C program to check whether a string belongs to the grammar

S → 0 A 1

A → 0 A | 1 A | ε

**PROGRAM :**

#include<stdio.h> #include<string.h> int main(){ char s[100];

int i,flag;

int l;

printf("enter a 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 Not Valid\n");

if(flag==1)

{

if (s[0]=='0'&&s[l-1]=='1')

printf("string is accepted\n");

else

printf("string is Not accepted\n");

}

}

**OUTPUT :**



