**EXPERIMENT 4a**

**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:**

