**2. Minimized DFA for Regular Expression**

#include<stdio.h>

#include<conio.h>

#include<strings.h>

void main()

{

int table[2][2],i,j,l,status=0,success;

char input[100];

printf("Program for implmenting DFA of language (a+aa\*b)\*\n\n\nEnter Input String \n");

table[0][0]=1;

table[0][1]=-1;

table[1][0]=1;

table[1][1]=0;

scanf("%s",input);

l=strlen(input);

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

{

if(input[i]!='a'&&input[i]!='b')

{

printf("Value entered is wrong");

getch();

exit(0);

}

if(input[i]=='a')

status=table[status][0];

else

status=table[status][1];

if(status==-1)

{

printf("String not Accepted by this Language");

break;

}

}

if(i==l)

printf("String Accepted");

getch();

}

**OUTPUT:**

Program for implmenting DFA of language (a+aa\*b)\*

Enter Input String

ababababa

String Accepted