```
//NFA TO DFA
    #include<string.h>
    #include <stdio.h>
    char
   st[20][20]={"A0A","A1A","A1B","B0C","B1C"},istates[20],result[20],state[20],sym[3]="01",states[2
   0][20];
   int ns,nt;
   int main()
   { int r=0;
   printf("Enter number of states");
  scanf("%d",&ns);
  printf("Enter number of transitions");
  scanf("%d",&nt);
  printf("Enter initial states");
  scanf("%s', istates);
  strcpy(states[r++],istates);
  printf("\t\t\%c\t\%c",sym[0],sym[1]);
  for(int x=0;x<r;x++)
 {
 printf("\n");
 printf("%s\t|\t",states[x]);
 for(int l=0;l<strlen(sym);l++)
 {
 int p=0;
for(int i=0;i<strlen(states[i]);i++){</pre>
char state=states[x][i];
for(int j=0;j<nt;j++){
char state1=st[j][0],input=st[j][1],state2=st[j][2];
if(state==state1&&input==sym[I])
```

```
{
  result[p++]=state2;
  }}}
  result[p++]='\0';
  int f=0;
  for(int a=0;a<r;a++){
 if(strcmp(states[a],result)==0)
 {
 f=1;
 break;
 if(f==0){
strcpy(states[r++],result);
printf("%s\t",result);
}
return 0;
}
OUTPUT
Enter number of states3
Enter number of transitions5
Enter initial statesABC
01
ABC | A AB
A | A AB
AB | A AB
```