Q.11>>Write a lex code to form the minimized DFA that accepts all strings starting with ‘ab’,where sigma={a,b}.

```
%s A B C
%%
<INITIAL>a BEGIN A;
<INITIAL>b BEGIN C;
<INITIAL>\n BEGIN INITIAL; printf("\n not accepted\n");
<A>a BEGIN C;
<A>b BEGIN B;
<A>\n BEGIN INITIAL; printf("\n not accepted\n");
<B>a BEGIN B;
<B>b BEGIN B;
<B>\n BEGIN INITIAL; printf("\n accepted\n");
<C>a BEGIN C;
<C>b BEGIN C;
<C>\n BEGIN INITIAL; printf("\n not accepted\n");
. ;
%%
int main()
{
	printf("enter string using {a,b} - ");
yylex();
return 0;
}
int yywrap()
{
 return 1;
}
```

```
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ lex fauto_m.l
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ gcc lex.yy.c
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ ./a.out
enter string using {a,b} - abba

 accepted
babba

 not accepted
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$
```