Exp-7 Strings under using Lexical analyzer

#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<stdlib.h>

Void main()

{

Char s[20],c;

Int state=0,i=0;

Printf(“\n Enter a string:”);

Gets(s);

While(s[i]!=’\0’)

{

Switch(state)

{

Case 0: c=s[i++];

If(c==’a’)

State=1;

Else if(c==’b’)

State=2;

Else

State=6;

Break;

Case 1: c=s[i++];

If(c==’a’)

State=3;

Else if(c==’b’)

State=4;

Else

State=6;

Break;

Case 2: c=s[i++];

If(c==’a’)

State=6;

Else if(c==’b’)

State=2;

Else

State=6;

Break;

Case 3: c=s[i++];

If(c==’a’)

State=3;

Else if(c==’b’)

State=2;

Else

State=6;

Break;

Case 4: c=s[i++];

If(c==’a’)

State=6;

Else if(c==’b’)

State=5;

Else

State=6;

Break;

Case 5: c=s[i++];

If(c==’a’)

State=6;

Else if(c==’b’)

State=2;

Else

State=6;

Break;

Case 6: printf(“\n %s is not recognised.”,s);

Exit(0);

}

}

If(state==1)

Printf(“\n %s is accepted under rule ‘a’”,s);

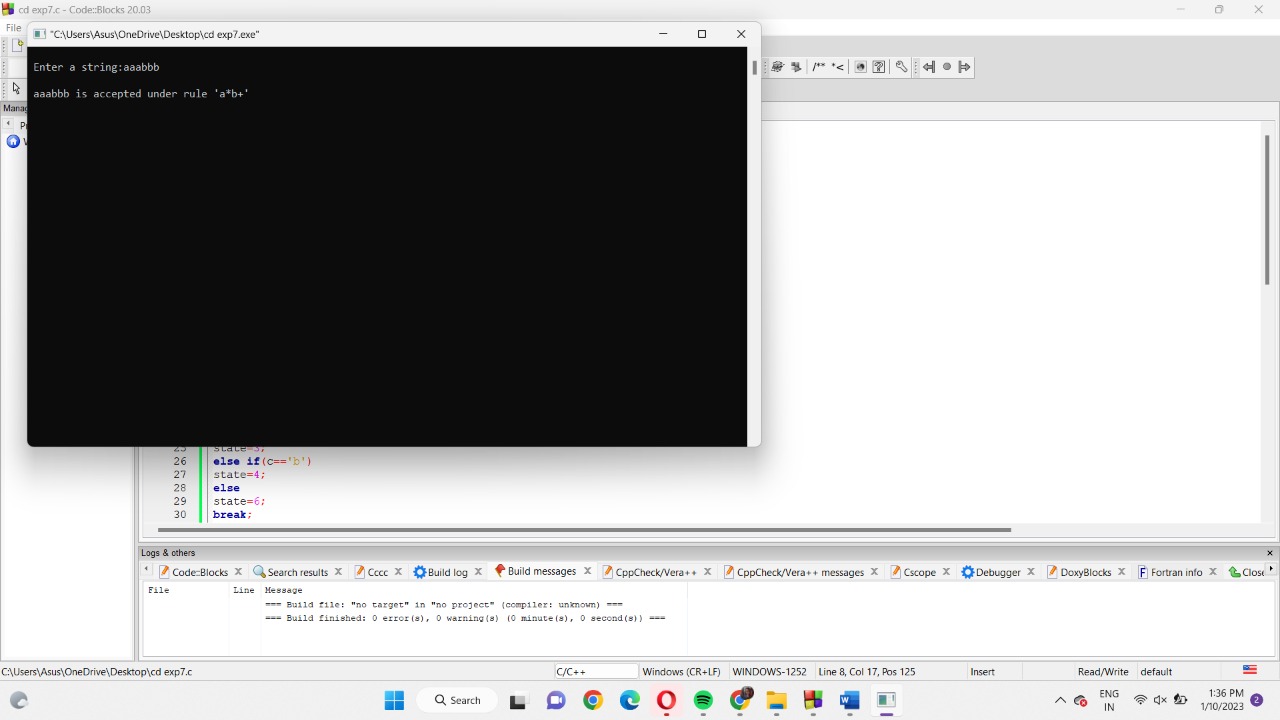
Else if((state==2)||(state==4))

Printf(“\n %s is accepted under rule ‘a\*b+’”,s);

Else if(state==5)

Printf(“\n %s is accepted under rule ‘abb’”,s);

Getch();

}