Practical no 3

**Program :**

#include<stdio.h>

#include<conio.h>

#include<ctype.h>

void main()

{

char str[30];

int state=0,i;

//clrscr();

printf("\n\t\*\*\*\*\*\* LEXICAL ANALYZER \*\*\*\*\*\*\n\t");

printf("\n\n\tPlease enter any string:\n\t");

gets(str);

i=0;

while(str[i]!=NULL)

{

switch(state)

{

case 0: if(isdigit(str[i])||(str[i]=='.'))

{

state=1;

}

else if((str[i]==NULL)||(str[i]==' '))

{

i++;

}

else

{

state=0;

i++;

}

break;

case 1: printf("\n\t%c",str[i]);

while(isdigit(str[++i])||(str[i]=='.'))

{

printf("%c",str[i]);

}

printf(" is a constant");

state=0;

break;

}

}

getch();

}

**Output :**

