**PROGRAM : 4**

**Question :** Write a lex code for Identify the keyword and the identifier

**Code :**

%{

int idCount = 0;

int varCount = 0;

%}

%%

"int"|"float"|"char"|"if"|"else" {

idCount++;

printf("%s is an identifier\n", yytext);

}

[a-zA-Z]+[0-9]\* {

varCount++;

printf("%s is a variable\n", yytext);

}

%%

int yywrap() {

return 1;

}

int main() {

printf("Enter some string:\n");

yylex();

printf("No. of identifiers: %d\nNo. of variables: %d\n", idCount,

varCount);

return 0;

}

**Output :**

**soumyadip@SOUMYADIP:~/Compiler Design$ ./KeywordIdentifier**

**Enter some string:**

**int sum=10;**

**int is an identifier**

**sum is a variable**

**=10;**

**No. of identifiers: 1**

**No. of variables: 1**