CBIT CSE-2

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LEX programs

1.program to identify keywords,numbers,identifiers

```
%{
//This is first lex program
%}
letter [a-z][A-Z0-9a-z0-9]*
digit [0-9]+
%%
int|float|do|char|else|while|for|if {printf("%s is a keyword",yytext);}
{letter} {printf("%s is an identifier",yytext);}
{digit} {printf("%s is a number",yytext);}
%%
main(int argc,char **argv)
{
if(argc>1)
yyin=fopen(argv[1],"r");
else
yyin=stdin;
yylex();
printf("\n");
}
int yywrap()
{
return 0;
```

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}

2.Program to implement standalone scanner in LEX

```
%{
int COMMENT=0;
%}
id      [a-z][a-z0-9]*
%%
#.*                          {printf("\n%s is a
PREPROCESSOR DIRECTIVE",yytext);}
int|double|char    {printf("\n\t%s is a
KEYWORD",yytext);}
if|then|endif        {printf("\n\t%s is a
KEYWORD",yytext);}
else                         {printf("\n\t%s is a
KEYWORD",yytext);}
"/*"                         {COMMENT=1;}
"*/"                         {COMMENT=0;}
{id}\(
{if(!COMMENT)printf("\n\nFUNCTION\n\t%s",yyte
{id}(\[[0-9]*\])?  {if(!COMMENT)
printf("\n\tidentifier\t%s",yytext);}
\{                           {if(!COMMENT) printf("\n
BLOCK BEGINS");ECHO; }
\}                           {if(!COMMENT)printf("\n
BLOCK ends");ECHO; }
\".*\"                       {if(!COMMENT)printf("\n\t %s
is a STRING",yytext);}
[+\-]?[0-9]+         {if(!COMMENT)printf("\n\t%s is
a NUMBER",yytext);}
\(
{if(!COMMENT)printf("\n\t");ECHO;printf("\t
delim openparanthesis\n");}
\)
```

```
{if(!COMMENT)printf("\n\t");ECHO;printf("\t delim closed paranthesis");}
\;
{if(!COMMENT)printf("\n\t");ECHO;printf("\t delim semicolon");}
\=                              {if(!COMMENT)printf("\n\t%s is an ASSIGNMENT OPERATOR",yytext);}
\<|\>                      {printf("\n\t %s is relational operator",yytext);}
"+"|"-"|"*"|"/"       {printf("\n %s is an operator\n",yytext);}
"\n"    ;
%%
main(int argc ,char **argv)
{
        if (argc > 1)
                yyin = fopen(argv[1],"r");
        else
                yyin = stdin;
        yylex ();
        printf ("\n");
}
int yywrap()
{
        return 0;
}
```

3.Program to find octal and hexadecimal numbers

```
%{
/*program to identify octal and hexadecimal numbers*/
%}
Oct [0][0-9]+
Hex [0][x|X][0-9A-F]+
%%
```

```
{Hex} printf("this is a hexadecimal number");
{Oct} printf("this is an octal number");
%%
main()
{
yylex();
}
int yywrap()
{
return 1;
}
```

4.Program to capitalize the given comment

```
%{
#include<stdio.h>
#include<ctype.h>
int k;
void display(char *);
%}
letter [a-z]
com [//]
%%
{com} {k=1;}
{letter} {if(k==1) display(yytext);}
%%
main()
{
 yylex();
}
 void display(char *s)
{
 int i;
 for(i=0;s[i]!='\0';i++)
 printf("%c", toupper(s[i]));
}
```

```
int yywrap()
{
return 1;
}
```

Comments