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3rd year cse lab programs

As per the anna university regulations - 2004, cs 1356 compilers lab and cs 1355 graphics and multimedia lab programs will be available here... u can also request for prog to this mail id cse.achievers@gmail.com...will be published soon...

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lexical analyser in c

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lexical.c

```
#include"stdio.h"
#include"conio.h"
void main()
{
 FILE *fi,*fo,*fop,*fk;
 int flag=0,i=1;
 char c,t,a[15],ch[15],file[20];
clrscr();
 printf("Enter the file name : ");
 scanf("%s",file);
 fi=fopen(file,"r");
 fo=fopen("inter.c","w");
 fop=fopen("oper.c","r");
 fk=fopen("key.c","r");
 c=getc(fi);
 while(!feof(fi))
 {
  if(isalpha(c)||isdigit(c)||(c=='['||c==']'||c=='.'==1))
   fputc(c,fo);
  else
  {
   if(c=='\n')
   fprintf(fo,"\t$\t");
   else
   fprintf(fo,"\t%c\t",c);
   }
  c=getc(fi);
 }
 fclose(fi);
 fclose(fo);
 fi=fopen("inter.c","r");
 printf("\t\tLEXICAL ANALYSIS \n");
 fscanf(fi,"%s",a);
 printf("\nline : %d\n",i++);
 while(!feof(fi))
 {
  if((strcmp(a,"$")==0))
  {
  printf("\nline : %d\n",i++);
  fscanf(fi,"%s",a);
  }
  fscanf(fop,"%s",ch);
  while(!feof(fop))
  {
  if(strcmp(ch,a)==0)
```

```
 {
  fscanf(fop,"%s",ch);
  printf("\t\t%s\t:\t%s\n",a,ch);
  flag=1;
  }
 fscanf(fop,"%s",ch);
 }
 rewind(fop);
 fscanf(fk,"%s",ch);
 while(!feof(fk))
 {
 if(strcmp(ch,a)==0)
 {
  fscanf(fk,"%s",ch);
  printf("\t\t%s\t:\tkeyword\n",a);
  flag=1;
  }
 fscanf(fk,"%s",ch);
 }
 rewind(fk);
 if(flag==0)
 {
 if(isdigit(a[0]))
 printf("\t\t%s\t:\tconstant\n",a);
 else
 printf("\t\t%s\t:\tidentifier\n",a);

 }
 flag=0;
 fscanf(fi,"%s",a);
}
 getch();
}
```

key.c

```
int
void
main
char
if
for
while
else
printf
scanf
FILE
include
stdio.h
conio.h
iostream.h
```

oper.c

```
( openpara
) closepara
{ openbrace
} closebrace
<  lesser
> greater
" doublequote
' singlequote
: colon
; semicolon
# preprocessor
= equal
== assign
% percentage
^ bitwise
```

& reference
* star
+ add
- sub
\ backslash
/ slash

input.c

```
#include"stdio.h"
#include"conio.h"
void main()
{
int a=10,b,c;
a=b*c;
getch();
}
```

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output:

```
Enter the file name:input.c
#    :    preprocessor
include : keyword
< : lesser

stdio.h : keyword
> : greater

line : 2
# : preprocessor
include : keyword
< : lesser

conio.h : keyword
> : greater

line : 3
void : keyword
main : keyword
( : openpara
) : closepara

line : 4
{ : openbrace

line : 5
int : keyword
a : identifier
= : equal
10 : constant
, : identifier
b : identifier
, : identifier
c : identifier
; : semicolon

line : 6
a : identifier
= : equal
b : identifier
* : star
c : identifier
; : semicolon

line : 7
```

getch : identifier
(: openpara
) : closepara
; : semicolon

line : 8
} : closebrace

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Posted by cselab at 6:54 PM
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