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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SATURDAY, JANUARY 16, 2010
Contributors
                              intermediate code generation
   kannan - admin
   cselab
                              Download this file: incode.c
Blog Archive
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                              program:
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                              #include"stdio.h"
    projection of 3d image
                              #include"conio.h"
                              #include"string.h"
    CODE GENERATION
                              int i=1, j=0, no=0, tmpch=90;
    cohen sutherland line
                              char str[100], left[15], right[15];
       clipping
                              void findopr();
    bresenhams line
                              void explore();
       drawing algorithm
                              void fleft(int);
    intermediate code
                              void fright(int);
       generation
                              struct exp
    DDA LINE Drawing
       Algorithm
                              int pos;
                              char op;
    two dimensional
                              }k[15];
       transformation
                              void main()
    midpoint circle
       algorithm
                              clrscr();
    midpoint ellipse
                              printf("\t\tINTERMEDIATE CODE GENERATION\n\n");
       algorithm
                              printf("Enter the Expression :");
    shift reduce parser
                              scanf("%s",str);
    recursive descent parser
                              printf("The intermediate code:\t\tExpression\n");
       in c
                              findopr();
    lexical analyser in c
                              explore();
                              getch();
                              void findopr()
                              for(i=o;str[i]!='\o';i++)
                               if(str[i]==':')
                               k[j].pos=i;
                               k[j++].op=':';
                              for(i=o;str[i]!='\o';i++)
                               if(str[i]=='/')
                               k[j].pos=i;
                               k[j++].op='/';
                              for(i=o;str[i]!='\o';i++)
                               if(str[i]=='*')
                               k[j].pos=i;
                               k[j++].op='*';
```

 $for(i=o;str[i]!='\o';i++)$

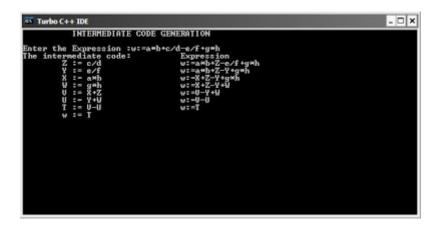
if(str[i]=='+')

```
k[j].pos=i;
 k[j++].op='+';
for(i=o;str[i]!='\o';i++)
if(str[i]=='-')
k[j].pos=i;
k[j++].op='-';
}
void explore()
i=1;
while(k[i].op!='\o')
 fleft(k[i].pos);
 fright(k[i].pos);
 str[k[i].pos]=tmpch--;
 printf("\t%c := \%s\%c\%s\t\t",str[k[i].pos],left,k[i].op,right);
 for(j=o;j <strlen(str);j++)</pre>
 if(str[j]!='$')
 printf("%c",str[j]);
 printf("\n");
i++;
fright(-1);
if(no==o)
 fleft(strlen(str));
 printf("\t%s := %s",right,left);
getch();
exit(o);
printf("\t%s := %c",right,str[k[--i].pos]);
getch();
void fleft(int x)
int w=o,flag=o;
while(x!= -1 &&str[x]!= '+'
&&str[x]!='*'&&str[x]!='='&&str[x]!='\o'&&str[x]!='-
'&&str[x]!='/'&&str[x]!=':')
if(str[x]!='$'&& flag==0)
 left[w++]=str[x];
 left[w]='\o';
 str[x]='$';
 flag=1;
 }
x--;
void fright(int x)
int w=o,flag=o;
while(x! = -1 \&\& str[x]! =
'+'&&str[x]!='*'&&str[x]!='\0'&&str[x]!='='&&str[x]!=':'&&str[x]!='-
'&&str[x]!='/')
if(str[x]!='\$'\&\& flag==o)
 right[w++]=str[x];
 right[w]='\o';
 str[x]='$';
 flag=1;
```

```
}
X++;
}
}
```

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Output:



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Posted by cselab at $\underline{\text{11:53 PM}}$ Labels: $\underline{\text{compiler lab}}$, $\underline{\text{cs1356}}$, $\underline{\text{intermediate code generation}}$, $\underline{\text{intermediate code generation in c}}$

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