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...

Contributors

FRIDAY, JANUARY 15, 2010

shift reduce parser kannan - admin

cselab

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```
projection of 3d image
```

CODE GENERATION

cohen sutherland line

clipping

bresenhams line

drawing algorithm

intermediate code

generation

DDA LINE Drawing

Algorithm

two dimensional

transformation

midpoint circle

algorithm

midpoint ellipse

algorithm

shift reduce parser

recursive descent parser

in c

lexical analyser in c

```
program:
```

```
#include"stdio.h"
#include"stdlib.h"
#include"conio.h"
#include"string.h"
char ip_sym[15],stack[15];
intip_ptr=o,st_ptr=o,len,i;
char temp[2],temp2[2];
charact[15];
void check();
void main()
clrscr();
printf("\n\t\t SHIFT REDUCE PARSER\n");
printf("\n GRAMMER\n");
printf("\n E->E+E\n E->E/E");
printf("\n E->E*E\n E->a/b");
printf("\n enter the input symbol:\t");
gets(ip_sym);
printf("\n\t stack implementation table");
printf("\n stack\t\t input symbol\t\t action");
printf("\n_
                  \t t
                                                   \n");
printf("\n $\t\t%s$\t\t--",ip_sym);
strcpy(act, "shift");
temp[o]=ip_sym[ip_ptr];
temp[1]='\o';
strcat(act,temp);
len=strlen(ip_sym);
for(i=0;i<=len-1;i++)
stack[st_ptr]=ip_sym[ip_ptr];
stack[st_ptr+1]='\o';
ip_sym[ip_ptr]=' ';
ip_ptr++;
printf("\n $%s\t\t%s$\t\t\s",stack,ip_sym,act);
strcpy(act, "shift");
temp[o]=ip_sym[ip_ptr];
temp[1]='\o';
strcat(act, temp);
check();
st_ptr++;
st_ptr++;
check();
```

```
void check()
int flag=o;
temp2[0]=stack[st_ptr];
temp2[1]='\o';
if((!strcmpi(temp2, "a"))||(!strcmpi(temp2, "b")))
stack[st_ptr]='E';
if(!strcmpi(temp2,"a"))
 printf("\n $\%s\t\t\%s \t\tE->a",stack, ip_sym);
 printf("\n $%s\t\t%s$\t\tE->b",stack,ip_sym);
flag=1;
if((!strcmpi(temp2,"+"))||(strcmpi(temp2,"*"))||(!strcmpi(temp2,"/")))
flag=1;
if((!strcmpi(stack,"E+E"))||(!strcmpi(stack,"E\E"))||
(!strcmpi(stack,"E*E")))
strcpy(stack,"E");
st_ptr=o;
if(!strcmpi(stack,"E+E"))
printf("\n $%s\t\t%s$\t\tE->E+E",stack,ip_sym);
if(!strcmpi(stack,"E\E"))
printf("\n $\%s\t\t\%s\t\t\E->E\E",stack,ip\_sym);
printf("\n $%s\t\t%s$\t\t\tE->E*E",stack,ip_sym);
flag=1;
}
if(!strcmpi(stack,"E")&&ip_ptr==len)
printf("\n $%s\t\t%s$\t\tACCEPT",stack,ip_sym);
getch();
exit(o);
if(flag==0)
printf("\n%s\t\t\s\t\t reject",stack,ip_sym);
exit(o);
return;
```

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output:



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Posted by cselab at 2:27 PM

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