5. symbol table operations

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#include<stdio.h>
#include<stdlib.h>
#include<string.h>
int cnt=0;
struct symtab
{
       char label[20]; int addr;
}sy[50]; void insert();
int search(char *);
void display();
void modify();
void main()
int ch,val; char lab[10];
do
{
       printf("\n1.insert\n2.display\n3.search\n4.modify\n5.exit\n");
scanf("%d",&ch);
       switch(ch)
       {
               case 1:
                       insert();
                       break;
                       case 2:
                               display();
                               break;
               case 3:
                       printf("enter the label");
                       scanf("%s",lab);
                       val=search(lab);
                       if(val==1)
                       printf("label is found");
                       else
                       printf("label is not found");
               break;
       case 4:
                       modify();
               break;
```

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case 5:
                       exit(0);
                       break;
       }while(ch<5);</pre>
}
void insert()
{
       int val;
       char lab[10]; printf("enter the label"); scanf("%s",lab); val=search(lab);
if(val==1)
       printf("duplicate symbol");
       else
       {
               strcpy(sy[cnt].label,lab);
                printf("enter the address");
               scanf("%d",&sy[cnt].addr);
               cnt++;
       }
}
int search(char *s)
{
       int flag=0,i; for(i=0;i<cnt;i++)</pre>
       {
                if(strcmp(sy[i].label,s)==0)
               flag=1;
       }
return flag;
void modify()
{
       int val,ad,i;
       char lab[10];
       printf("enter the label"); scanf("%s",lab); val=search(lab); if(val==0)
       printf("no such symbol");
       else
       {
                printf("label is found \n");
                printf("enter the address");
               scanf("%d",&ad);
               for(i=0;i<cnt;i++)
```

```
1.insert
2.display
3.search
4.modify
5.exit
```