EXPERIMENT-12

- **IMPLEMENT A TWO PASS MACRO PROCESSOR**
- PASS 1

Source Code

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<stdlib.h>
void main(){
    FILE *f1,*f2,*f3;
lab[10],mne[10],op[10];
f1=fopen("input.txt","r");
f2=fopen("dtab.txt","w");
f3=fopen("ntab.txt","w");
fscanf(f1,"%s%s%s",lab,mne,op);
while(strcmp(mne, "MEND")){
if(strcmp(mne, "MACRO") == 0){
fprintf(f2,"%s\t%s\n",lab,op);
fprintf(f3,"%s\n",lab);
                  else{
fprintf(f2,"%s\t%s\n",mne,op);
fscanf(f1, "%s%s%s", lab, mne, op);
    fprintf(f2,"%s\n",mne);
fprintf(f3,"-\n",lab);
printf("PASS 1 is successful");
fclose(f1); fclose(f2);
fclose(f3);
```

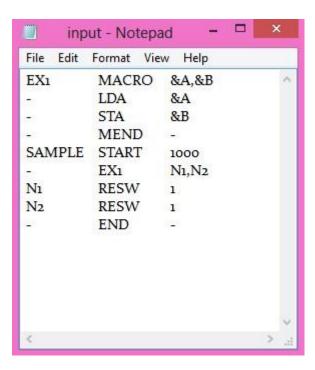


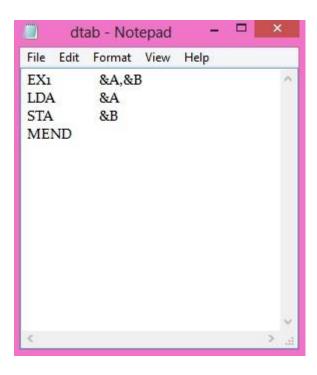
Source Code

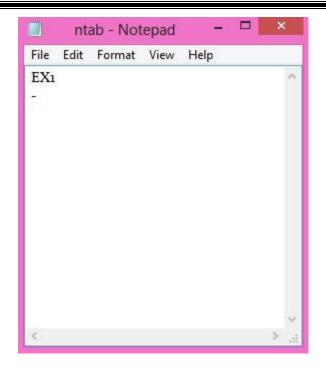
```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<stdlib.h>
struct
argument{
    char arg[10],para[10];
}arg[10];
void main(){
    FILE *f1,*f2,*f3,*f4;
                              int flag=0,i=0,j;
lab[10],mne[10],op[10],macro[10],dmne[10],dop[10],temp1[10],temp2[10];
f1=fopen("input.txt","r");
                               f2=fopen("dtab.txt","r");
f3=fopen("ntab.txt","r");
                              f4=fopen("op.txt","w");
fscanf(f1,"%s%s%s",lab,mne,op);
                                    while(strcmp(mne, "START")!=0)
fscanf(f1,"%s%s%s",lab,mne,op);
                                    while(strcmp(mne, "END")!=0){
fscanf(f3,"%s",macro);
                               while(strcmp(macro, "-")!=0){
if(strcmp(mne,macro)==0){
                                          flag=1;
                                                                   break;
            fscanf(f3,"%s",macro);
                  rewind(f3);
                                      if(flag){
fscanf(f2,"%s%s",dmne,dop);
                                        while(strcmp(dmne,mne)!=0)
fscanf(f2,"%s%s",dmne,dop);
                                        strcpy(temp1,dop);
strcpy(temp2,op);
                             for(char
*p=strtok(temp1,",");p!=NULL;p=strtok(NULL,",")){
strcpy(arg[i].para,p);
                                       i++;
                for(char
*p=strtok(temp2,",");p!=NULL;p=strtok(NULL,",")){
strcpy(arg[i].arg,p);
```

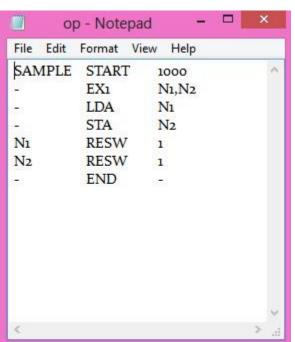
```
i++;
fprintf(f4,"%s\t%s\t%s\n",lab,mne,op);
fscanf(f2,"%s%s",dmne,dop);
                                    for(j=0;j<i;j++){
while(strcmp(dmne,"MEND")!=0){
if(strcmp(arg[j].para,dop)==0){
fprintf(f4,"-\t%s\t%s\n",dmne,arg[j].arg);
break;
fscanf(f2,"%s%s",dmne,dop);
                         rewind(f2);
                                        else{
flag=0;
                   i=0;
fprintf(f4,"%s\t%s\t%s\n",lab,mne,op);
fscanf(f1,"%s%s%s",lab,mne,op);
fprintf(f4,"%s\t%s\t%s\n",lab,mne,op);
fclose(f1);
             fclose(f2);
fclose(f3); fclose(f4);
printf("PASS 2 is successful");
```

Inputs & Outputs









SUBMITTED BY:

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