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¹ **XII-E**

Certificate

This is to certify that Ruchir Jain of St.columbas School, Class 12th has completed this project 'File Manager' under my supervision , and completed to my satisfaction.

Signature

Aim

The Aim of the project is to build a basic, user friendly file manager which helps you to open, rename, copy, move and organize your files in a smarter way. This application contains a multi-clipboard attribute which helps you to copy or move file from multiple locations to one location simultaneously; a feature which is not present in most of the other file managers. Hence saves a lot of time.

This project was not created for only board purposes, but also for use in daily life.

Header Files

Header files	Functions used	Used to
fstream.h	cin	get input
	cout	get output
	open()	open file
	close()	close file
conio.h	wherex()	get x coordinate
	wherey()	get y coordinate
	window()	define output window
	textbackground()	set background colour
	textcolor()	set text color
	clrscr()	clear the screen
	_setcursortype()	sets cursor design
	gotoxy()	goto specific location
	cprintf()	print on screen
	getch()	get a character from user
dos.h	clreol()	clear end of line
	delay()	delay the output
stdio.h	sprint()	sent formatted output to screen
	rename()	rename a file
	remove()	remove a file
dir.h	findfirst()	search file in directory
	findnext()	continue search for files
	setdisk()	sets current drive no.
	getdisk()	get current drive no.
	mkdir()	makes a directory

string.h	strcpy()	copy 1 string to another
	strcmp()	compare 2 strings
	strcat()	combine 2 strings
	strlen()	get string length
	strupr()	converts lowercase to uppercase
graphics.h	initgraph()	initialize graphics system
	graphresult()	return error code
	line()	draw a line
	getmaxx()	returns max. ordinate
	getmaxy()	returns max. abscissa
	closegraph()	close graphics system
stdlib.h	exit()	exit from program
	random()	generate random no.

User Defined Classes

I. **class filei**

```
{
    char name[13],attrib;
    char time[9],date[9];
    unsigned long size;
public:
```

```

void copy(ffblk &f)
{
    strcpy(name,f.ff_name);
    attrib=f.ff_attrib;
    size=f.ff_fsize;
}
void print();
void setname(char name1[13])
{
    strcpy(name,name1);
}
char retatt()
{
    return attrib;
}
int chkname()
{
    if(!strcmp(name,".")||!strcmp(name,".."))
        return 1;
    else return 0;
}
void getname(char a[13])
{
    strcpy(a,name);
}
};
void filei::print()
{
    int x=wherex(),y=wherey();
    window(1,25,80,25);
    textbackground(LIGHTBLUE);
    textcolor(WHITE);
    clrscr();
    char str[80];
    sprintf(str,"Name : %s ",name);
    if(attrib!=16)
    {
        strcat(str,"Size : ");
        char a[255];
        printbytes(size,a);
        strcat(str,a);
    }
    else strcat(str,"Directory");
    statusbar2(str);
}

```

```

        window(1,2,80,24);
        textbackground(WHITE);
        textcolor(BLACK);
        gotoxy(x,y);
    }

```

II. **class filep**

```

{
    filei f;
    char path[255];
public:
    void getpath(char a[255])
    {
        strcpy(a,path);
    }
    filei getfilei()
    {
        return f;
    }
    void setfilei(filei fi)
    {
        f=fi;
    }
    void setpath(char a[255])
    {
        strcpy(path,a);
    }
};

```

III.

class copylist

```

{
    char dir[50];
public:
    copylist(char a[50])
    {
        strcpy(dir,a);
    }
    void addtolist(filep);
    void execlist(char direc[255]);
    void execmovelist(char direc[255]);
    void clearlist();
};

void copylist::execmovelist(char direc[255])
{
    ifstream ifile(dir,ios::binary);
    filep f;

```

```

        while(ifile.read((char*)&f,sizeof(f)))
        {
            move(f,direc);
        }
        ifile.close();
        clearlist();
    }

void copylist::addtolist(filep f)
{
    ofstream ofile(dir,ios::app|ios::binary);
    ofile.write((char*)&f,sizeof(f));
    ofile.close();
}

void stat(char []);

void copylist::execlist(char direc[255])
{
    ifstream ifile(dir,ios::binary);
    filep f;
    while(ifile.read((char*)&f,sizeof(f)))
    {
        copy(f,direc);
    }
    ifile.close();
    clearlist();
}

void copylist::clearlist()
{
    remove(dir);
}

```

Source Code

```

#include<fstream.h>
#include<process.h>
#include<conio.h>
#include<dos.h>
#include<stdio.h>
#include<dir.h>

```



```

#include<string.h>
#include<graphics.h>
#include<stdlib.h>

void getdrives(char []);
void newln();
void openrename(char []);
void progressbar(int);
void statusbar2(char []);
void openfolder(char []);
void statusbar(char []);
void WELCOME();

class filei
{
    char name[13],attrib;
    char time[9],date[9];
    unsigned long size;
public:
    void copy(ffblk &f)
    {
        strcpy(name,f.ff_name);
        attrib=f.ff_attrib;
        size=f.ff_fsize;
    }
    void print();
    void setname(char name1[13])
    {
        strcpy(name,name1);
    }
    char retatt()
    {
        return attrib;
    }
    int chkname()
    {
        if(!strcmp(name,".")||!strcmp(name,".."))
            return 1;
        else return 0;
    }
    void getname(char a[13])
    {
        strcpy(a,name);
    }
}

```

```

};
void printbytes(unsigned long size,char str [])
{
    if(size>1024)
    {
        if((size/1024)>1024)
        {
            float a;
            a=size/1024;
            a/=1024;
            sprintf(str,"%f MB",a);
            return;
        }
        else
        {
            float a=size/1024;
            sprintf(str,"%f KB",a);
            return;
        }
    }
    sprintf(str,"%d BYTES",size);
}

void filei::print()
{
    int x=wherex(),y=wherey();
    window(1,25,80,25);
    textbackground(LIGHTBLUE);
    textcolor(WHITE);
    clrscr();
    char str[80];
    sprintf(str,"Name : %s  ",name);
    if(attrb!=16)
    {
        strcat(str,"Size : ");
        char a[255];
        printbytes(size,a);
        strcat(str,a);
    }
    else strcat(str,"Directory");
    statusbar2(str);
    window(1,2,80,24);
    textbackground(WHITE);
    textcolor(BLACK);
    gotoxy(x,y);

```

```

}
class filep
{
    filei f;
    char path[255];
public:
    void getpath(char a[255])
    {
        strcpy(a,path);
    }
    filei getfilei()
    {
        return f;
    }
    void setfilei(filei fi)
    {
        f=fi;
    }
    void setpath(char a[255])
    {
        strcpy(path,a);
    }
};

void move(filep f,char direc[255])
{
    char original[255];
    char final[255];
    f.getpath(original);
    char name[13];
    f.getfilei().getname(name);
    strcpy(final,direc);
    strcat(final,"\\");
    strcat(final,name);
    rename(original,final);
}

void copy(filep f,char direc[255])
{
    char original[255];
    char final[255];
    f.getpath(original);
    char name[13];
    f.getfilei().getname(name);
    strcpy(final,direc);
    strcat(final,"\\");

```

```

        strcat(final,name);
        fstream ofile(final,ios::binary|ios::out);
        fstream ifile(original,ios::binary|ios::in);
        char byte;
        while(ifile.read(&byte,1))
            ofile.write(&byte,1);
        ofile.close();
        ifile.close();
    }
class copylist
{
    char dir[50];
public:
    copylist(char a[50])
    {
        strcpy(dir,a);
    }
    void addtolist(filep);
    void execlist(char direc[255]);
    void execmovelist(char direc[255]);
    void clearlist();
};
void copylist::execmovelist(char direc[255])
{
    ifstream ifile(dir,ios::binary);
    filep f;
    while(ifile.read((char*)&f,sizeof(f)))
    {
        move(f,direc);
    }
    ifile.close();
    clearlist();
}
void copylist::addtolist(filep f)
{
    ofstream ofile(dir,ios::app|ios::binary);
    ofile.write((char*)&f,sizeof(f));
    ofile.close();
}
void stat(char []);
void copylist::execlist(char direc[255])
{
    ifstream ifile(dir,ios::binary);
    filep f;

```

```

        while(ifile.read((char*)&f,sizeof(f)))
        {
            copy(f,direc);
        }
        ifile.close();
        clearlist();
    }
void copylist::clearlist()
{
    remove(dir);
}
void mycomp()
{
    char myc[12]="My Computer";
    statusbar(myc);
    statusbar2("Details about your computer");
    window(1,2,80,24);
    textbackground(WHITE);
    textcolor(BLACK);
    clrscr();
    char drives[50]="CDE";
    getdrives(drives);
    int n=strlen(drives);
    int pos=0;
    gotoxy(1,2);
    textcolor(WHITE);
    textbackground(LIGHTBLUE);
    clreol();
    cprintf(" %c:",drives[0]);
    textbackground(WHITE);
    textcolor(BLACK);
    gotoxy(1,wherey()+1);
    for(int i=1;i<n;i++)
    {
        cout<<drives[i]<<":";
        gotoxy(1,wherey()+1);
    }
    gotoxy(1,2);
    while(1)
    {
        char c=getch();
        if(c==27)
            exit(0);
        if(c=='\b')

```

```

        continue;
    else if(!c)
    {
        switch(getch())
        {
            case 80:
                if(pos+1!=n)
                {
                    clrscr();
                    pos=pos+1;
                    gotoxy(1,2);
                    for(int i=0;i<n;i++)
                    {
                        if(wherey()!=pos+2)
                        {
                            cout<<drives[i]<<": ";
                            gotoxy(1,wherey()+1);
                        }
                        else
                        {
                            textbackground(LIGHTBLUE);
                            textcolor(WHITE);
                            clreol();
                            cprintf(" %c:",drives[i]);
                            gotoxy(1,wherey()+1);
                            textcolor(BLACK);
                            textbackground(WHITE);
                        }
                    }
                    gotoxy(1,pos+2);
                }
                break;
            case 72:
                if(pos-1>-1)
                {
                    clrscr();
                    pos=pos-1;
                    gotoxy(1,2);
                    for(int i=0;i<n;i++)
                    {
                        if(wherey()!=pos+2)
                        {
                            cout<<drives[i]<<": ";
                            gotoxy(1,wherey()+1);

```

```

    }
    else
    {
        textbackground(LIGHTBLUE);
        textcolor(WHITE);
        clreol();
        cprintf(" %c:",drives[i]);
        gotoxy(1,wherey()+1);
        textbackground(WHITE);
        textcolor(BLACK);
    }
}
gotoxy(1,pos+2);
}
break;
}
}
else if(c==13)
{
    char direc[7];
    direc[0]=drives[pos];
    direc[1]=':';
    direc[2]='\0';
    statusbar(direc);
    openfolder(direc);
    clrscr();
    statusbar(myc);
    textcolor(WHITE);
    textbackground(LIGHTBLUE);
    newln();
    clreol();
    cprintf(" %c:",drives[0]);
    textbackground(WHITE);
    textcolor(BLACK);
    gotoxy(1,wherey()+1);
    n = strlen(drives);
    for(int i=1;i<n;i++)
    {
        cout<<drives[i]<<":";
        gotoxy(1,wherey()+1);
    }
    pos=0;
    gotoxy(1,1);
}

```

```

    }
}

int print(filei a[255],char direc[255])
{
    ffbk dir;
    int done;
    clrscr();
    int n=0;
    char NEW[255];
    strcpy(NEW,direc);
    strcat(NEW,"\\*.");
    done = findfirst(NEW,&dir,FA_DIREC);
    while (!done)
    {
        a[n].copy(dir);
        if(a[n].chkname()==1)
            n--;
        n++;
        if(n==255)break;
        done = findnext(&dir);
    }
    return n;
}

void getdrives(char d[50])
{
    int dn=0;
    for (int disk = 0;disk < 26;++disk)
    {
        setdisk(disk);
        if (disk == getdisk())
            d[dn++]=disk+'A';
    }
    d[dn]='\0';
    setdisk(2);
}

void newln()
{
    gotoxy(1,wherey()+1);
}

int filemenu()

```



```

{
    char menu[7][20]={"Move","Delete","Rename","Copy","Paste","New Folder","Exit"};
    window(40,2,80,24);
    textbackground(LIGHTBLUE);
    textcolor(WHITE);
    clrscr();
    gotoxy(1,2);
    textcolor(BLACK);
    textbackground(YELLOW);
    clreol();
    gotoxy(1,2);
    cprintf(" %s",menu[0]);
    textcolor(WHITE);
    textbackground(LIGHTBLUE);
    int n=7;
    for(int i=1;i<n;i++)
    {
        gotoxy(1,wherey()+1);
        cprintf(" %s",menu[i]);
    }
    int pos=0;
    gotoxy(1,2);
    while(1)
    {
        char c=getch();
        if(c==27)
            exit(0);
        if(c=="\b")
        {
            window(40,2,80,24);
            textbackground(WHITE);
            textcolor(BLACK);
            clrscr();
            window(1,2,80,24);
            break;
        }
        else if(!c)
        {
            switch(getch())
            {
                case 80:
                    if(pos+1!=n)
                    {
                        clreol();

```

```

        cprintf(" %s",menu[pos]);
        pos=pos+1;
        textbackground(YELLOW);
        textcolor(BLACK);
        newln();
        clreol();
        cprintf(" %s",menu[pos]);
        textcolor(WHITE);
        textbackground(LIGHTBLUE);
        gotoxy(1,pos+2);
    }
    break;
case 72:
    if(pos-1!=-1)
    {
        clreol();
        cprintf(" %s",menu[pos]);
        pos=pos-1;
        textbackground(YELLOW);
        textcolor(BLACK);
        gotoxy(1,wherey()-1);
        clreol();
        cprintf(" %s",menu[pos]);
        textcolor(WHITE);
        textbackground(LIGHTBLUE);
        gotoxy(1,pos+2);
    }
    break;
}
}
else if(c==13)
{
    window(40,2,80,24);
    textbackground(WHITE);
    textcolor(BLACK);
    clrscr();
    window(1,2,80,24);
    if(pos==6)
        exit(0);
    return pos;
}
}
return -1;
}

```

```

void openfolder(char direc[255])
{
    copylist copy("C:\\copy.dat"),move("C:\\move.dat");
    textbackground(WHITE);
    textcolor(BLACK);
    clrscr();
    filei a[255];
    int pos=0;
    int n = print(a,direc);
    char name[13];
    if(!n)
    {
        cout<<"No files found. Press any key to return to My Computer";
        getch();
        return;
    }
    for(int i=0;i<n&& i<20;i++)
    {
        a[i].getname(name);
        if(i!=0)
        {
            cprintf("%s",name);
            gotoxy(1,wherey()+1);
        }
        else
        {
            gotoxy(1,2);
            a[i].print();
            textbackground(LIGHTBLUE);
            textcolor(WHITE);
            clreol();
            cprintf(" %s",name);
            gotoxy(1,wherey()+1);
            textbackground(WHITE);
            textcolor(BLACK);
        }
    }
    gotoxy(1,2);
    int down=0,up=0;
    textcolor(BLACK);
    while(1)
    {
        char c=getch();

```

```

if(c==27)          //Exit if escape
    exit(0);
if(c=='b')         //Go back if backspace is pressed
{
    for(int i=strlen(direc)-1;direc[i]!='\ '&&i>=0;i--);
    if(i==0)
        return;
    direc[i]='\0';
    for(i=strlen(direc)-1;direc[i]!='\ '&&i>=0;i--);
    char name[30];
    i++;
    for(int k=0;direc[i]!='\0';i++,k++)
        name[k]=direc[i];
    name[k]='\0';
    statusbar(name);
    textbackground(WHITE);
    textcolor(BLACK);
    clrscr();
    up=down=0;
    n=print(a,direc);
    for(i=0;i<n&&i<20;i++)
    {
        a[i].getname(name);
        if(i!=0)
        {
            cprintf("%s",name);
            gotoxy(1,wherey()+1);
        }
        else
        {
            gotoxy(1,2);
            a[i].print();
            textbackground(LIGHTBLUE);
            textcolor(WHITE);
            clreol();
            cprintf(" %s",name);
            gotoxy(1,wherey()+1);
            textbackground(WHITE);
            textcolor(BLACK);
        }
    }
    gotoxy(1,2);
    pos=0;
}

```

```

else if(!c)
{
    switch(getch())
    {
        case 80:
            if(pos+1!=n)
            {
                clreol();
                a[pos].getname(name);
                cprintf("%s",name);
                pos=pos+1;
                if(pos+2-down==22)
                {
                    down++;
                    up--;
                    gotoxy(1,2);
                    delline();
                    gotoxy(1,21);
                }
                else
                {
                    gotoxy(1,pos+2-down);
                }
                a[pos].getname(name);
                textbackground(LIGHTBLUE);
                textcolor(WHITE);
                clreol();
                cprintf(" %s",name);
                a[pos].print();
                textcolor(BLACK);
                textbackground(WHITE);
                gotoxy(1,pos+2-down);
            }
            break;
        case 72: if(pos-1>-1)
        {
            clreol();
            a[pos].getname(name);
            cprintf("%s",name);
            pos=pos-1;
            if(pos+2+up==1)
            {
                down--;
                up++;
            }
        }
    }
}

```

```

                                gotoxy(1,21);
                                clreol();
                                gotoxy(1,2);
                                insline();
                                }
                                else
                                {
                                    gotoxy(1,pos+2+up);
                                }
                                textbackground(LIGHTBLUE);
                                textcolor(WHITE);
                                clreol();
                                a[pos].getname(name);
                                cprintf(" %s",name);
                                a[pos].print();
                                textcolor(BLACK);
                                textbackground(WHITE);
                                gotoxy(1,pos+2+up);
                                }
                                break;
                                }
                                }
                                else if(c==13)
                                {
                                    int ch=-1;
                                    if(a[pos].retatt()!=16)
                                        ch=filemenu();
                                    else
                                        ch=-2;
                                    if(ch==-1)
                                    {
                                        gotoxy(1,pos+2+up);
                                        textbackground(LIGHTBLUE);
                                        textcolor(WHITE);
                                        clreol();
                                        a[pos].getname(name);
                                        cprintf(" %s",name);
                                        a[pos].print();
                                        textcolor(BLACK);
                                        textbackground(WHITE);
                                        gotoxy(1,pos+2+up);
                                        continue;
                                    }
                                }
                                window(1,2,80,24);

```

```

if(ch==-2)
{
    up=down=0;
    char name[13];
    a[pos].getname(name);
    statusbar(name);
    if(a[pos].retatt()==16)
    {
        strcat(direc,"\\"); //make the new directory path
        strcat(direc,name);
        n=print(a,direc);
        if(!n)
        {
            cout<<"No files found.Press any key to return";
            for(int i=strlen(direc)-1;direc[i]!='\\'&&i>=0;i--);
            if(i==-1)
                return;
            direc[i]='\0';
            for(i=strlen(direc)-1;direc[i]!='\\'&&i>=0;i--);
            char name[30];
            i++;
            for(int k=0;direc[i]!='\0';i++,k++)
                name[k]=direc[i];
            name[k]='\0';
            statusbar(name);
            textbackground(WHITE);
            textcolor(BLACK);
            clrscr();
            up=down=0;
            n=print(a,direc);
            getch();
        }
    }
    pos=0;
}
else if(ch==0)
{
    filep movefile;
    char temp[255];
    strcpy(temp,direc);
    strcat(temp,"\\");
    strcat(temp,name);
    movefile.setfilei(a[pos]);
    movefile.setpath(temp);
}

```

```

        move.addtolist(movefile);
    }
    else if(ch==1)
    {
        char temp[255];
        strcpy(temp,direc);
        strcat(temp,"\\");
        strcat(temp,name);
        remove(temp);
        n=print(a,direc);
    }
    else if(ch==2)
    {
        char newname[255];
        openrename(newname);
        strupr(newname);
        char temp[255],temp1[255];
        strcpy(temp,direc);
        strcat(temp,"\\");
        strcpy(temp1,temp);
        strcat(temp1,newname);
        strcat(temp,name);
        rename(temp,temp1);
        a[pos].setname(newname);
    }
    else if(ch==3)
    {
        filep copyfile;
        char temp[255];
        strcpy(temp,direc);
        strcat(temp,"\\");
        strcat(temp,name);
        copyfile.setfilei(a[pos]);
        copyfile.setpath(temp);
        copy.addtolist(copyfile);
    }
    else if(ch==4)
    {
        char temp[255];
        strcpy(temp,direc);
        copy.execlist(temp);
        strcpy(temp,direc);
        move.execmovelist(temp);
        n=print(a,direc);
    }

```



```

    }
    else if(ch==5)
    {
        char temp[255];
        openrename(temp);
        char temp1[255];
        strcpy(temp1,direc);
        strcat(temp1,"\\");
        strcat(temp1,temp);
        mkdir(temp1);
        remove(temp1);
        n=print(a,direc);
    }
    textbackground(WHITE);
    textcolor(BLACK);
    clrscr();
    gotoxy(1,2);
    for(int i=down;i<n&&i<(20+down);i++)
    {
        a[i].getname(name);
        if(i!=pos)
        {
            cprintf("%s",name);
            gotoxy(1,wherey()+1);
        }
        else
        {
            a[i].print();
            textbackground(LIGHTBLUE);
            textcolor(WHITE);
            clreol();
            cprintf(" %s",name);
            gotoxy(1,wherey()+1);
            textbackground(WHITE);
            textcolor(BLACK);
        }
    }
    gotoxy(1,pos+2-down);
}
}

void border(int c1,int r1,int c2,int r2,int d)
{

```

```

window(1,1,80,25);
for(int i=c1;i<=c2;i++)
{
    gotoxy(i,r1);
    cprintf("2");
    delay(d);
}
for(i=r1;i<=r2;i++)
{
    gotoxy(c2,i);
    cprintf("2");
    delay(d);
}
for(i=c2;i>=c1;i--)
{
    gotoxy(i,r2);
    cprintf("2");
    delay(d);
}
for(i=r2;i>=r1;i--)
{
    gotoxy(c1,i);
    cprintf("2");
    delay(d);
}
}

```

```

void openrename(char a[255])
{
    window(20,10,62,18);
    textbackground(BLACK);
    textcolor(WHITE);
    clrscr();
    textcolor(GREEN);
    border(20,10,62,18,0);
    window(21,11,62,18);
    newln();
    cout<<" ENTER NAME (NO SPACES) :";
    newln();
    newln();
    for(int i=0;i<=40;i++)
        cprintf("2");
    textcolor(WHITE);
    newln();
    newln();
}

```

```

        char c[255];
        cin>>c;
        strcpy(a,c);
        window(1,2,80,24);
        textcolor(BLACK);
        textbackground(WHITE);
        clrscr();
    }

void statusbar(char up[50])
{
    window(1,1,80,1);
    textbackground(RED);
    textcolor(WHITE);
    clrscr();
    int x=(80-strlen(up))/2;
    gotoxy(x,1);
    cout<<up;
    x=(40-strlen("Details"))/2;
    gotoxy(40+x,1);
    cout<<"Details";
    window(1,2,80,24);
}

void statusbar2(char up[50])
{
    window(1,25,80,25);
    textbackground(LIGHTBLUE);
    textcolor(WHITE);
    clrscr();
    int x=(80-strlen(up))/2;
    gotoxy(x,1);
    cout<<up;
    x=(40-strlen("Details"))/2;
    gotoxy(40+x,1);
    window(1,2,80,24);
}

void sand()
{
    int gdriver = DETECT, gmode, errorcode;
    initgraph(&gdriver, &gmode, "..\\BGI");
    int error=graphresult();
    if(error)

```

```

        cout<<"ERROR";
        line(0, 0, getmaxx(), getmaxy());
        closegraph();
    }

void main()
{
    WELCOME();
    sand();
    _setcursortype(_NOCURSOR);
    mycomp();
    getch();
}

void printname()
{
    while(!kbhit())
    {
        delay(100);
        textbackground(BLACK);
        textcolor(random(16));
        // F
        for(int i=0;i<10;i++)
        {
            gotoxy(3,i+5);
            cprintf("22");
        }
        gotoxy(4,5);
        cprintf("22222");
        gotoxy(4,6);
        cprintf("22222");
        gotoxy(4,10);
        cprintf("222");
        gotoxy(4,9);
        cprintf("222");
        // I
        textcolor(random(16));
        for(i=0;i<10;i++)
        {
            gotoxy(10,i+5);
            cprintf("22");
        }
        //L
        textcolor(random(16));
        for(i=0;i<10;i++)

```

```

{
    gotoxy(13,i+5);
    cprintf("22");
}
gotoxy(13,14);
cprintf("22222");
gotoxy(13,13);
cprintf("22222");
//E
textcolor(random(16));
for(i=0;i<10;i++)
{
    gotoxy(19,i+5);
    cprintf("22");
}
gotoxy(19,13);
cprintf("22222");
gotoxy(19,14);
cprintf("22222");
gotoxy(19,5);
cprintf("22222");
gotoxy(19,6);
cprintf("22222");
gotoxy(19,9);
cprintf("22222");
gotoxy(19,10);
cprintf("22222");

// -
textcolor(random(16));
gotoxy(25,9);
cprintf("2222");
gotoxy(25,10);
cprintf("2222");

// M
textcolor(random(16));
for(i=0;i<10;i++)
{
    gotoxy(30,i+5);
    cprintf("22");
}
gotoxy(32,5);
cprintf("2  2");

```

```

gotoxy(32,6);
cprintf("2 2");
gotoxy(32,7);
cprintf(" 2 2");
gotoxy(32,8);
cprintf(" 2 2");
gotoxy(32,9);
cprintf(" 2");
gotoxy(32,10);
cprintf(" 2");
for(i=0;i<10;i++)
{
    gotoxy(37,i+5);
    cprintf("22");
}
//A
textcolor(random(16));
for(i=0;i<10;i++)
{
    gotoxy(40,i+5);
    cprintf("22");
}
gotoxy(40,5);
cprintf("2222");
gotoxy(40,6);
cprintf("2222");
gotoxy(40,10);
cprintf("222");
gotoxy(40,9);
cprintf("222");
for(i=0;i<10;i++)
{
    gotoxy(43,i+5);
    cprintf("22");
}
// N
textcolor(random(16));
for(i=0;i<10;i++)
{
    gotoxy(46,i+5);
    cprintf("22");
}
gotoxy(48,13);
cprintf(" 2");

```

```

gotoxy(48,14);
cprintf(" 2");
gotoxy(48,11);
cprintf(" 2");
gotoxy(48,12);
cprintf(" 2");
gotoxy(48,5);
cprintf("2 ");
gotoxy(48,6);
cprintf("2 ");
gotoxy(48,7);
cprintf(" 2 ");
gotoxy(48,8);
cprintf(" 2 ");
gotoxy(48,9);
cprintf(" 2");
gotoxy(48,10);
cprintf(" 2");
for(i=0;i<10;i++)
{
    gotoxy(53,i+5);
    cprintf("22");
}
//A
textcolor(random(16));
for(i=0;i<10;i++)
{
    gotoxy(56,i+5);
    cprintf("22");
}
gotoxy(56,5);
cprintf("2222");
gotoxy(56,6);
cprintf("2222");
gotoxy(56,10);
cprintf("222");
gotoxy(56,9);
cprintf("222");
for(i=0;i<10;i++)
{
    gotoxy(59,i+5);
    cprintf("22");
}
//G
textcolor(random(16));

```

```

for(i=0;i<10;i++)
{
    gotoxy(62,i+5);
    cprintf("22");
}
gotoxy(62,13);
cprintf("22222");
gotoxy(62,14);
cprintf("22222");
gotoxy(62,5);
cprintf("22222");
gotoxy(62,6);
cprintf("22222");
gotoxy(62,9);
cprintf("22 22");
gotoxy(62,10);
cprintf("22 22");
gotoxy(62,11);
cprintf("22 22");
gotoxy(62,12);
cprintf("22 22");
//E
textcolor(random(16));
for(i=0;i<10;i++)
{
    gotoxy(68,i+5);
    cprintf("22");
}
gotoxy(68,13);
cprintf("22222");
gotoxy(68,14);
cprintf("22222");
gotoxy(68,5);
cprintf("22222");
gotoxy(68,6);
cprintf("22222");
gotoxy(68,9);
cprintf("22222");
gotoxy(68,10);
cprintf("22222");
// R
textcolor(random(16));
gotoxy(74,13);
cprintf(" 2");
gotoxy(74,14);
cprintf(" 2");

```



```

        gotoxy(74,11);
        cprintf(" 2");
        gotoxy(74,12);
        cprintf(" 2");
        gotoxy(74,5);
        cprintf("22222");
        gotoxy(74,6);
        cprintf("22222");
        gotoxy(74,7);
        cprintf(" 2 ");
        gotoxy(74,8);
        cprintf(" 2 ");
        gotoxy(74,9);
        cprintf(" 2");
        gotoxy(74,10);
        cprintf(" 2");
        for(i=0;i<10;i++)
        {
            gotoxy(74,i+5);
            cprintf("22");
        }
        textcolor(MAGENTA);
        gotoxy(25,18);
        cprintf("Class 12 Computer Science Project ");
        gotoxy(1,1);
        cout<<"Running File-Manager version 1.0 by Ruchir Jain\n";
        gotoxy(2,23);
        textcolor(LIGHTGREEN);
        cprintf("      E-MAIL: ");
        textcolor(YELLOW);
        cprintf("ruchirjain24@gmail.com");
        gotoxy(20,25);
        textcolor(128);
        textbackground(RED);
        cprintf("Press any key to continue. Press esc to Exit");
    }
    if(getch()==27)
        exit(1);
}

void progressbar(int i=100)
{
    textbackground(BLACK);

```

```

        clrscr();
        window(19,7,71,9);
        textbackground(RED);
        textcolor(BLACK);
        clrscr();
        cout<<" Progress..... "<<i<<"% ";
        window(20,8,70,8);
        textbackground(BLACK);
        clrscr();
        window(20,8,20+i/2,8);
        textbackground(GREEN);
        clrscr();
        textcolor(GREEN);
    }

void WELCOME()
{
    clrscr();
    textbackground(BLACK);
    clrscr();
    gotoxy(1,1);
    cout<<"Loading File-Manager version 1.0 by Ruchir Jain\n";
    textcolor(CYAN);
    cout<<" ";
    for(int i=1;i<79;i++)
        cprintf("_");
    for(i=1;i<23;i++)
    {
        gotoxy(1,i+2);
        cprintf("|");
    }
    for( i=1;i<79;i++)
        cprintf("_");
    for(i=1;i<23;i++)
    {
        gotoxy(80,i+2);
        cprintf("|");
    }
    textcolor(BLUE);
    printname();
}

```

Output Screens

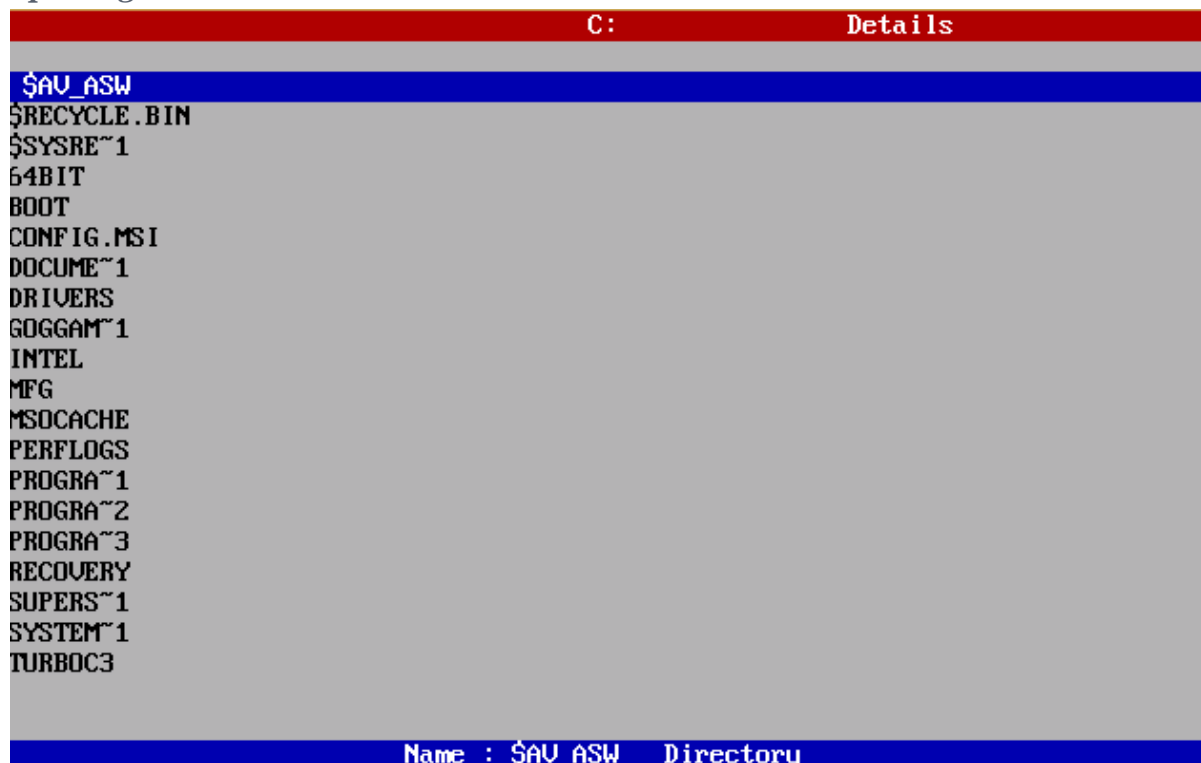
Welcome Screen



Main Screen



Opening C: Drive



Displaying Details of files

PROJECT	Details
PROJECT.CPP	
TEST.BAK	
TEST.CPP	
Name : PROJECT.CPP Size : 20.000000 KB	

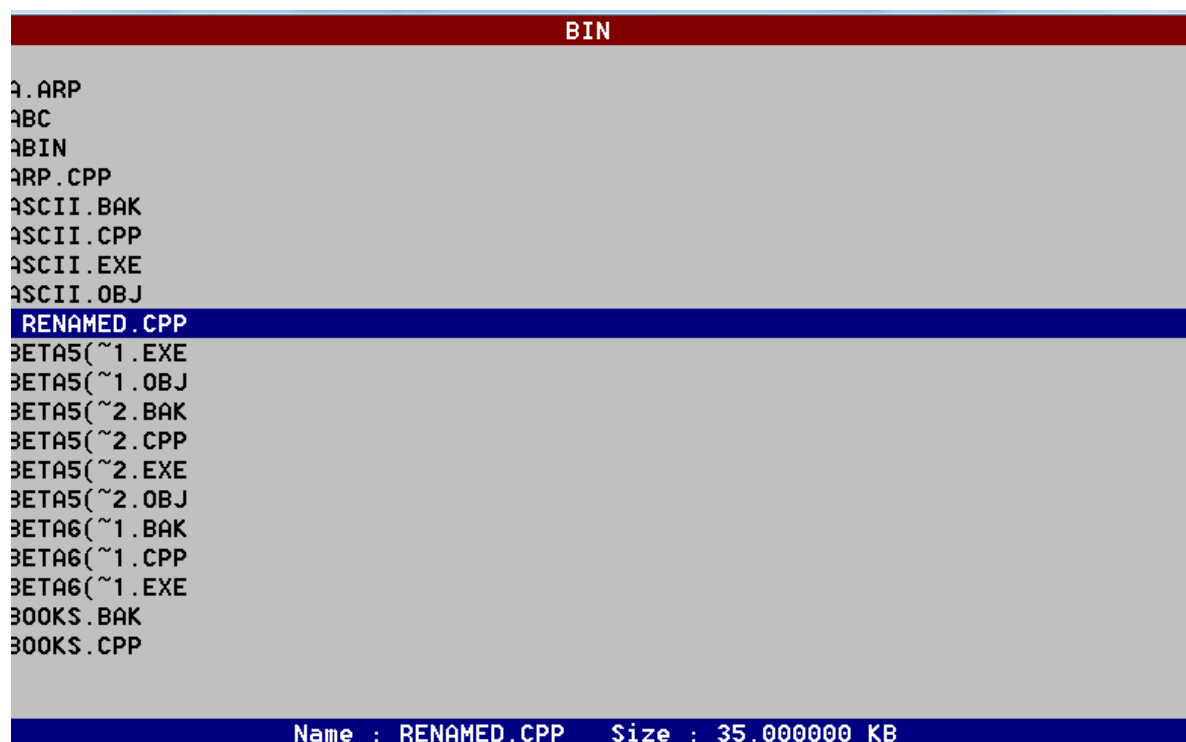
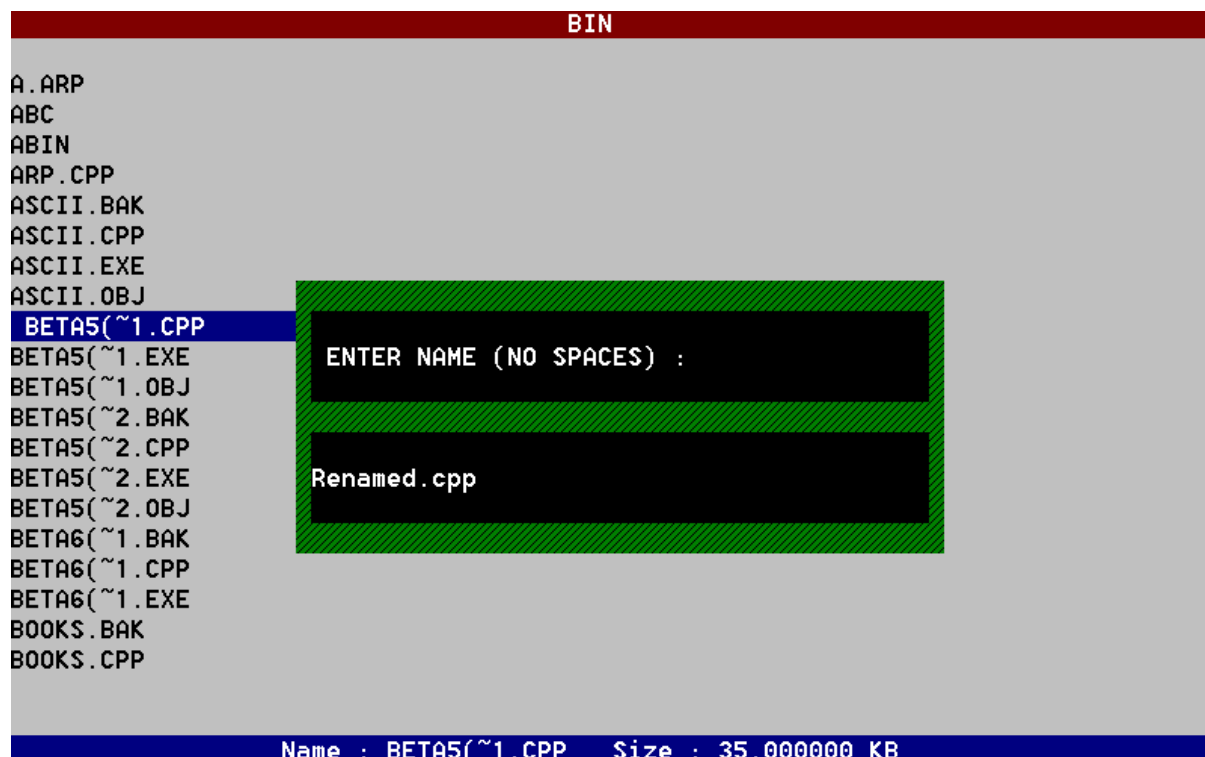
S-1-5~1	Details
\$I00GNUM.JPG	
\$I01KH40.JPG	
\$I02GELC.JPG	
\$I04UM12.JPG	
\$I054M0T.JPG	
\$I05KN1L.JPG	
\$I07FNA4.DOC	
\$I0C1DUH.JPG	
\$I0EQSHI.JPG	
\$I0M4KQW.JPG	
\$I0PNQPS.JPG	
\$I0RC2U7.JPG	
\$I0RGTWE.JPG	
\$I0U52ND.JPG	
\$I0Y71UH.JPG	
\$I0YA33U.JPG	
\$I0YA8ES.JPG	
\$I0ZPP7L.JPG	
\$I1029RD.JPG	
\$I10CQH3.JPG	
Name : \$I00GNUM.JPG Size : 544 BYTES	

Options Menu

BIN		Details
PP PRACT PROJECT ADDME.DAT ADNO.BAK ADNO.CPP ADNO.EXE ADNO.OBJ AWESOMEF.BAK AWESOMEF.CPP AWGE.BAK AWGE.CPP AWGE.EXE AWGE.OBJ BUBBLEGU.BAK BUBBLEGU.CPP BUILTINS.MAK CLASS12.CPP CLASS12A.BAK CLASS12A.CPP		Move
		Delete
		Rename
		Copy
		Paste
		New Folder
		Exit
Name : ADNO.CPP		Size : 3.000000 KB

Renaming File

BIN	
A.ARP	Move
ABC	Delete
ABIN	Rename
ARP.CPP	Copy
ASCII.BAK	Paste
ASCII.CPP	New Folder
ASCII.EXE	Exit
ASCII.OBJ	
BETA5(~1.CPP	
BETA5(~1.EXE	
BETA5(~1.OBJ	
BETA5(~2.BAK	
BETA5(~2.CPP	
BETA5(~2.EXE	
BETA5(~2.OBJ	
BETA6(~1.BAK	
BETA6(~1.CPP	
BETA6(~1.EXE	
BOOKS.BAK	
BOOKS.CPP	
Name : BETA5(~1.CPP Size : 35.000000 KB	

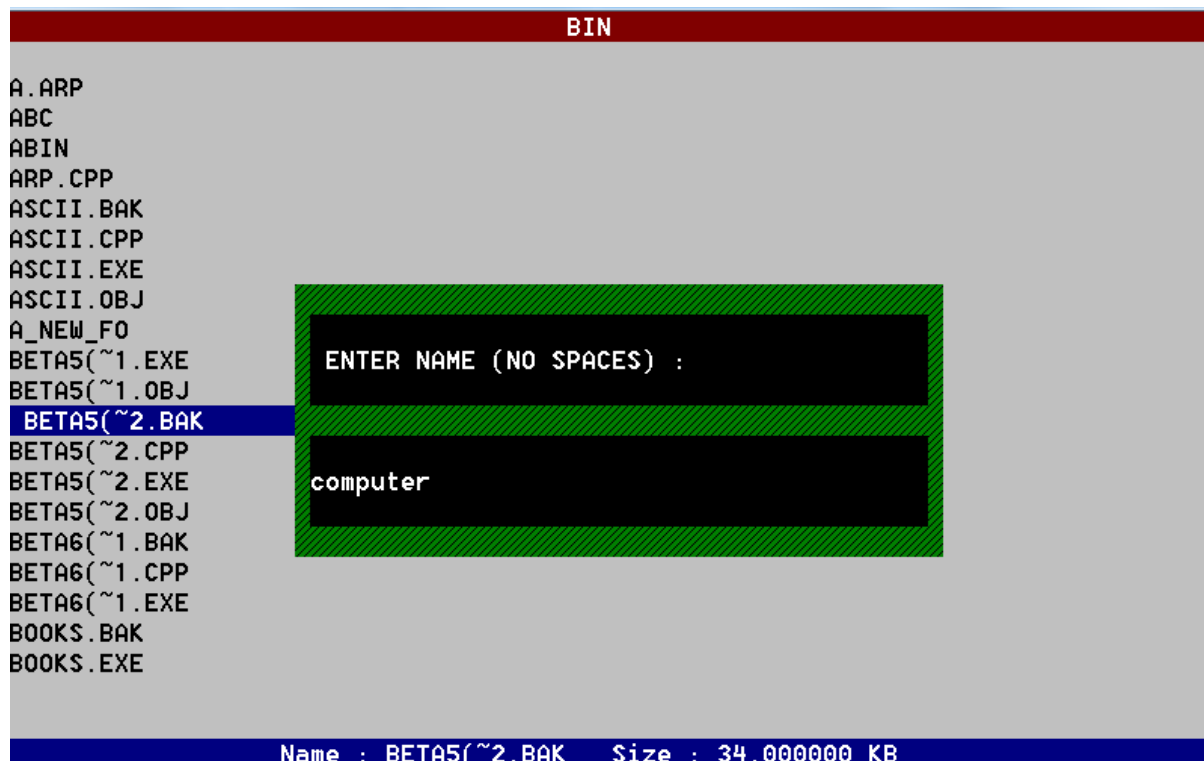


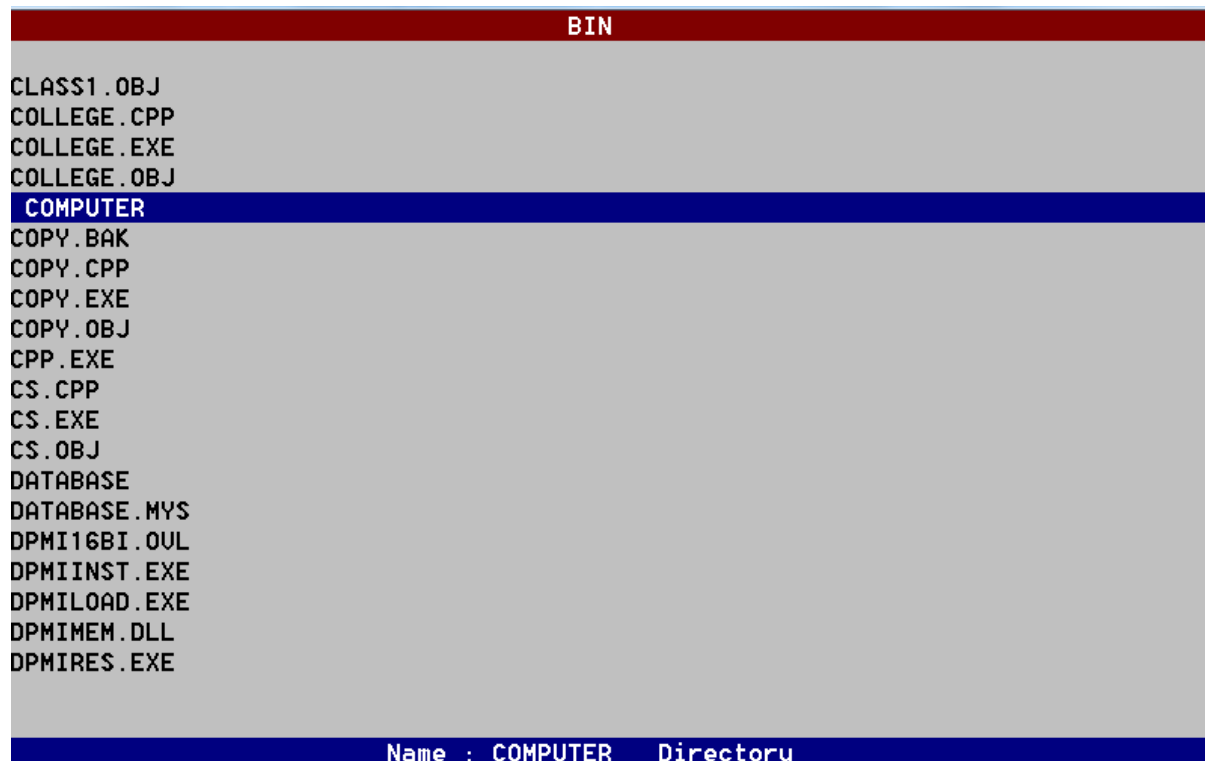
Deleting file

BIN		Details
CLASS12E.CPP CLASS12F.BAK CLASS12F.CPP CLASS12G.BAK CLASS12G.CPP CPP.EXE DPMI16BI.OVL DPMIINST.EXE DPMILOAD.EXE DPMIMEM.DLL DPMIRES.EXE EMSTEST.COM EX1.EXE FILE12A.BAK FILE12A.CPP FIRST.TXT FULL.TXT GREP.COM GREP2MSG.EXE LAST.TXT		Move
		Delete
		Rename
		Copy
		Paste
		New Folder
		Exit
	Name : FULL.TXT	

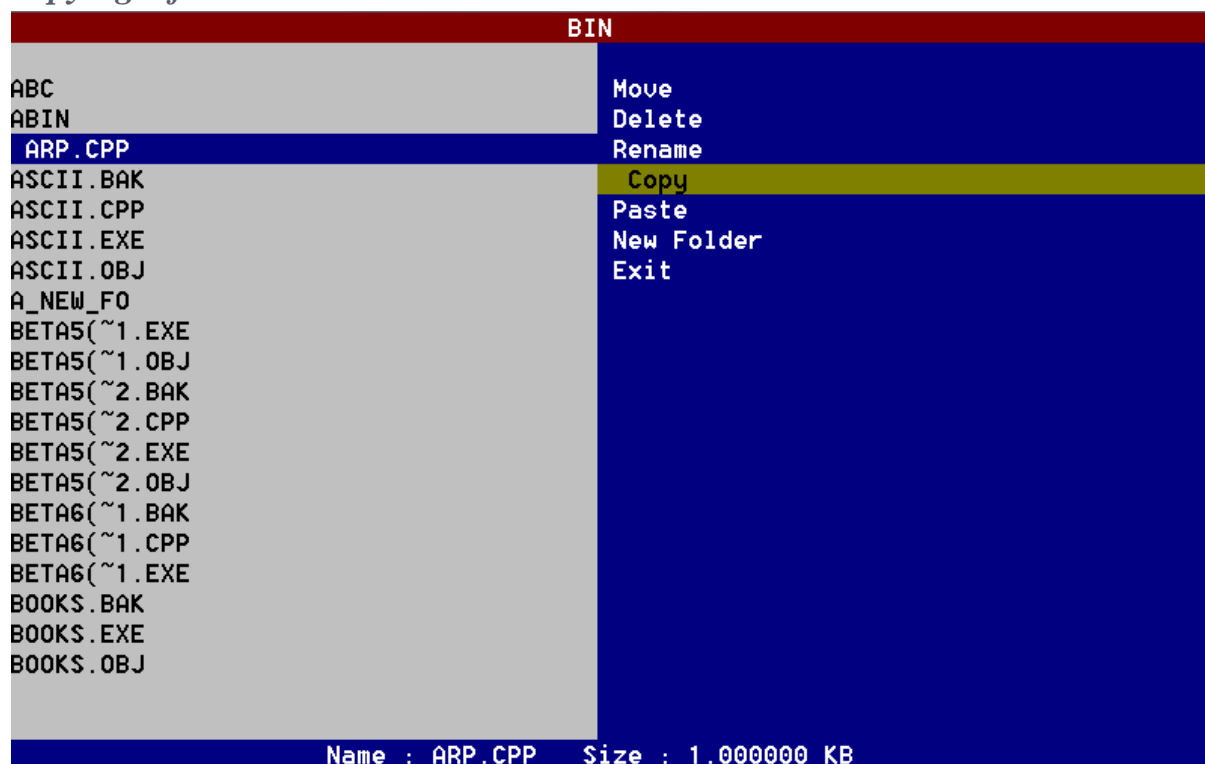
BIN		Details
CLASS12E.CPP		
CLASS12F.BAK		
CLASS12F.CPP		
CLASS12G.BAK		
CLASS12G.CPP		
CPP.EXE		
DPMI16BI.OVL		
DPMIINST.EXE		
DPMILOAD.EXE		
DPMIMEM.DLL		
DPMIRES.EXE		
EMSTEST.COM		
EX1.EXE		
FILE12A.BAK		
FILE12A.CPP		
FIRST.TXT		
GREP.COM		
GREP2MSG.EXE		
LAST.TXT		
LIB.BAK		
Name : GREP.COM		Size : 6.000000 KB

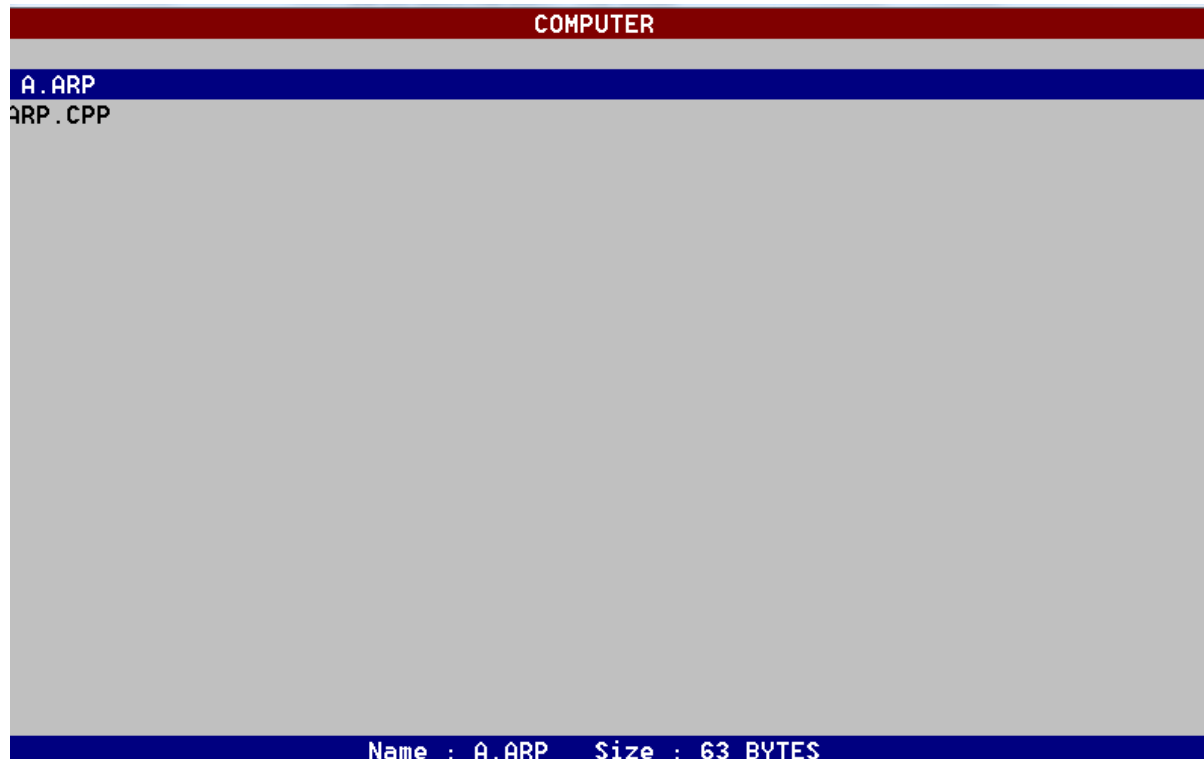
Creating New Folder



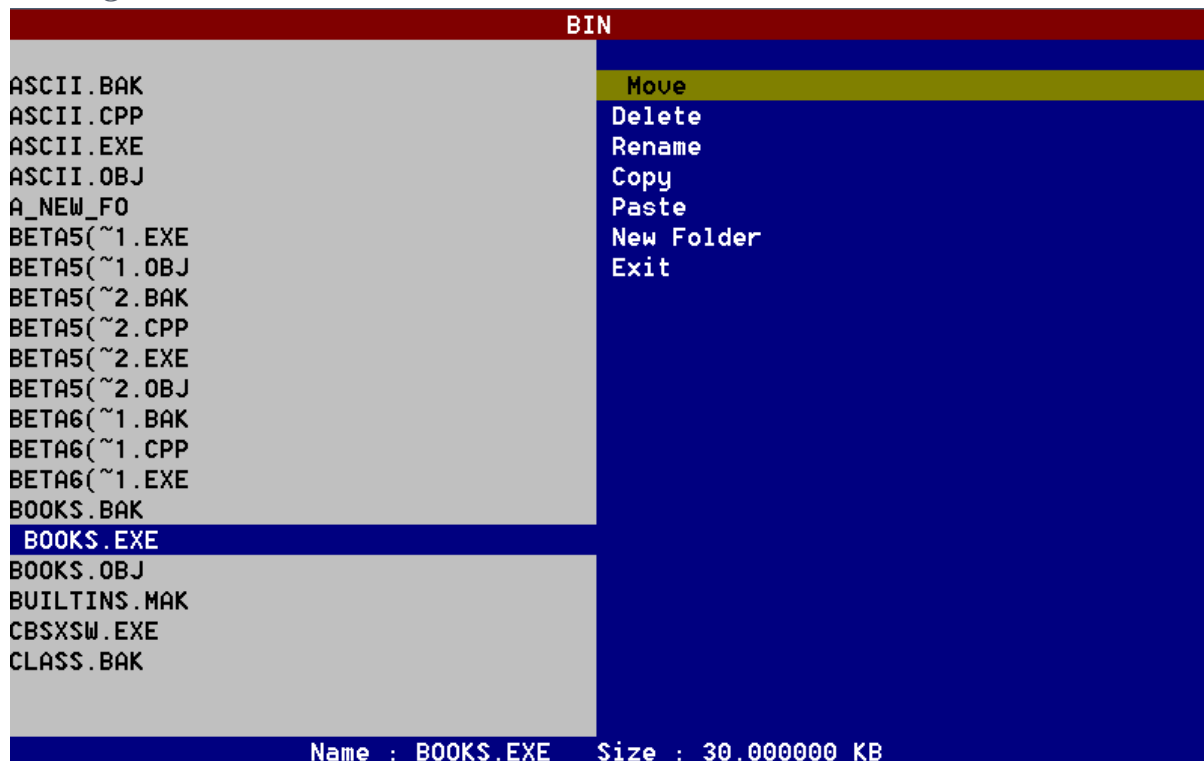


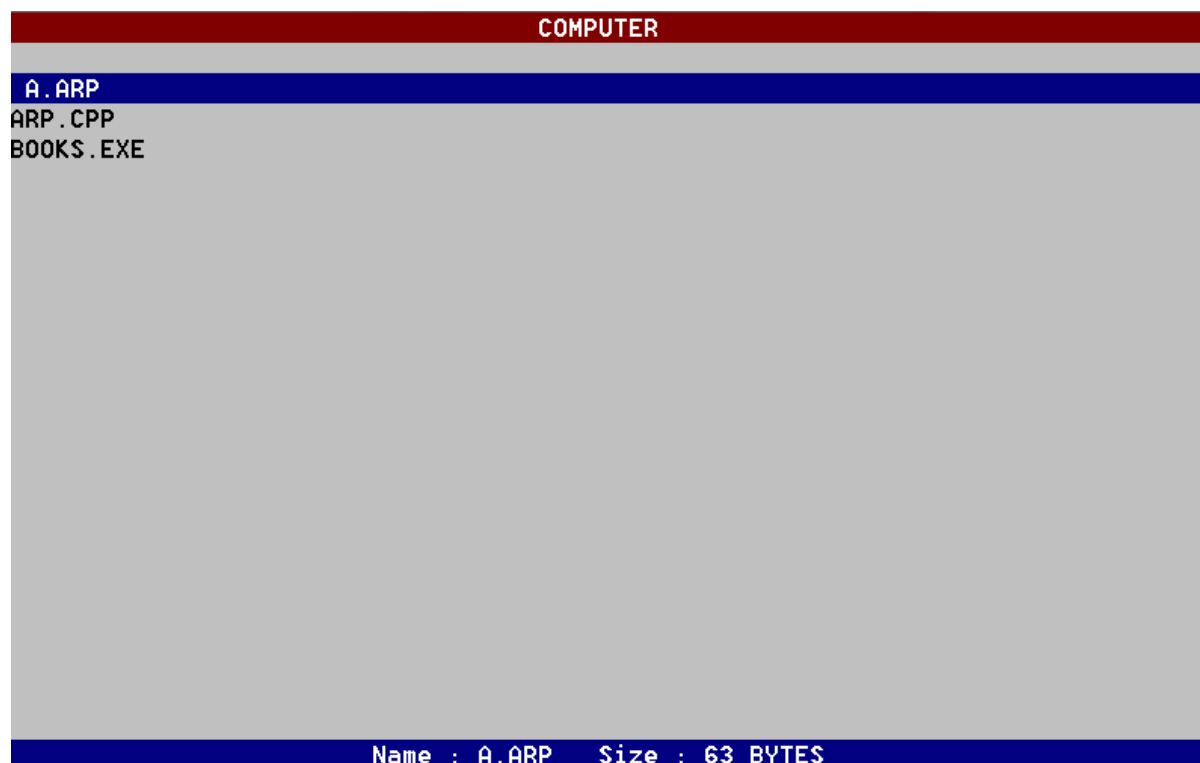
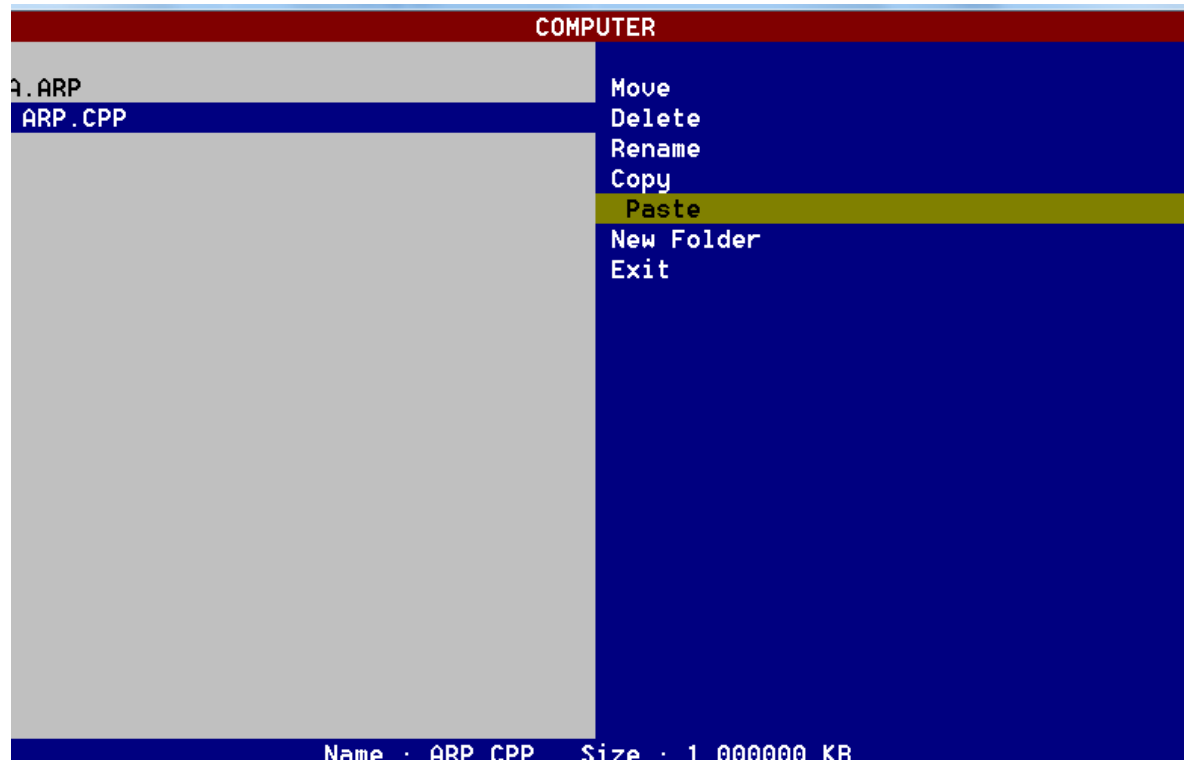
Copying a file



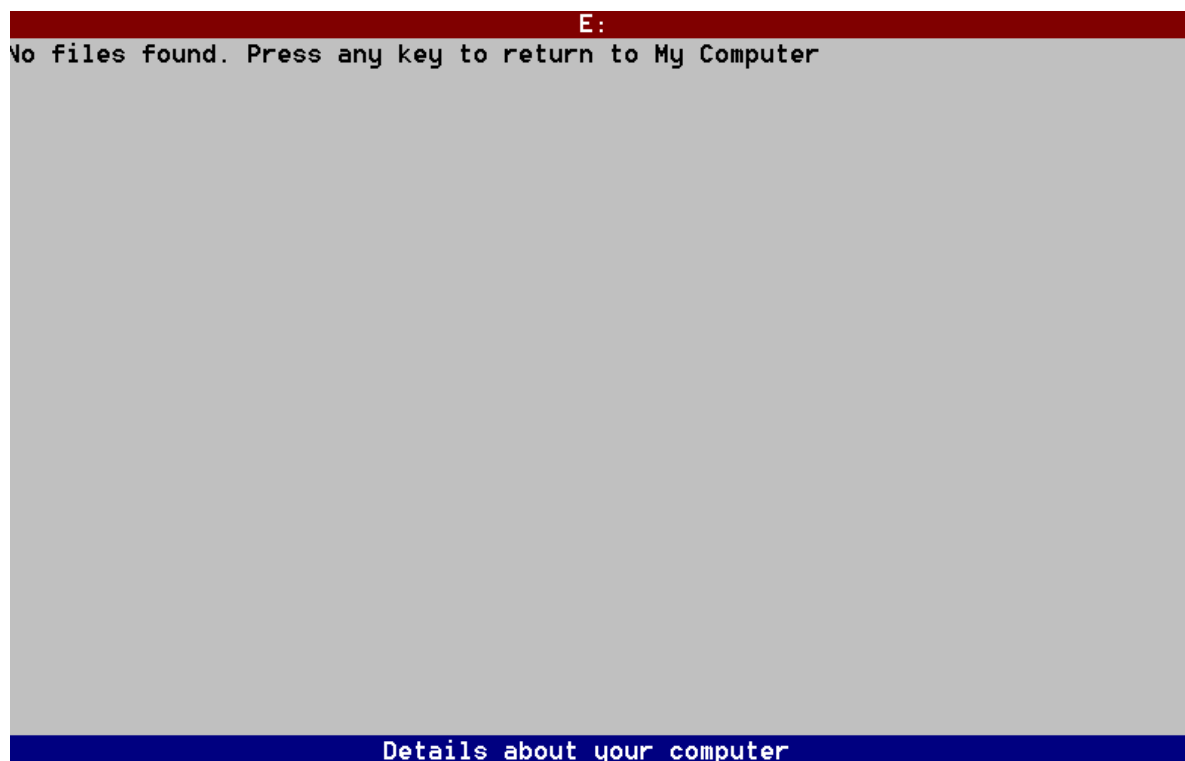
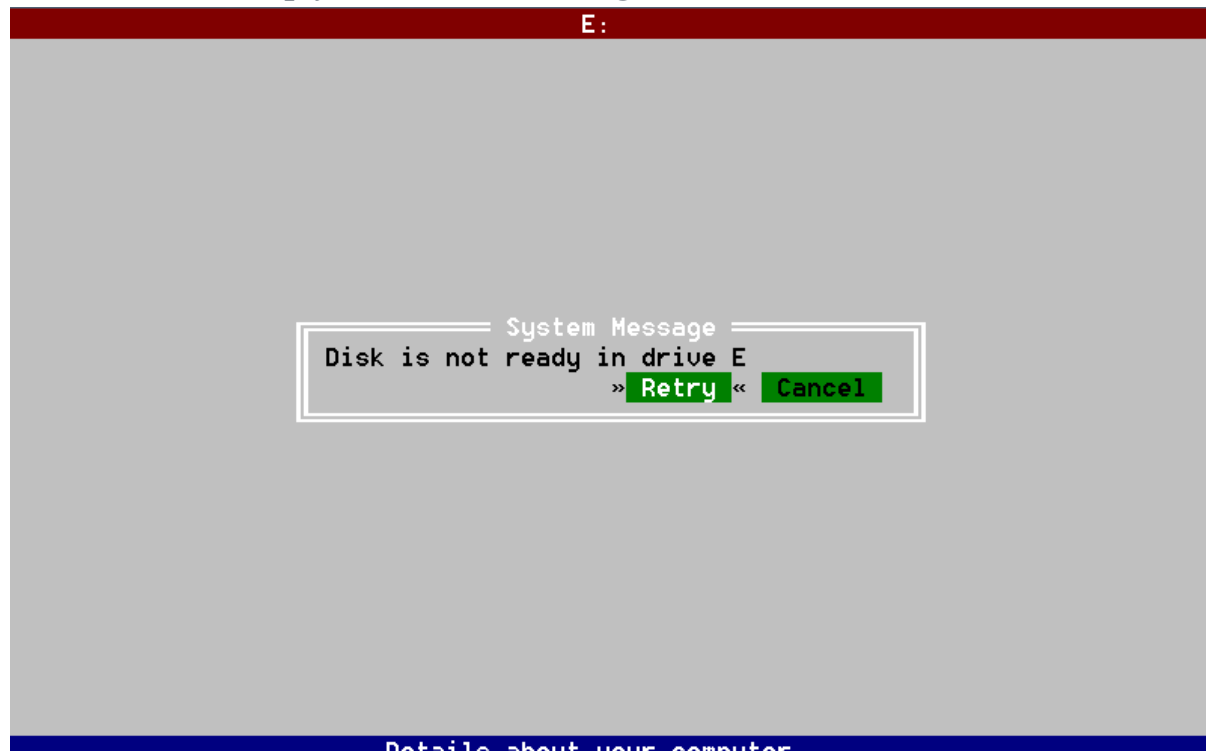


Moving A File





When Drive is Empty/Not Accessible (eg: When no CD in DVD RW Drive)



Acknowledgement

The success and final outcome of this project required a lot of guidance and assistance from many people and I am extremely fortunate to have got this all along the completion of my project work. Whatever I have done is only due to such guidance and assistance and I would not forget to thank them.

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