

The successful completion of any task would be incomplete without mentioning the names of those persons who helped to make it possible. I take this opportunity to express my gratitude in few words and respect to all those who helped me in the completion of this project.

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* INTRODUCTION
* FLOW-CHART
* CONTENTS
* C++ Header Files Used
* C++ Data types used
* Structures made (Imp. only)
* Classes made (Imp. only)
* Content Of All Files made
* Screenshots
* Bibliography

This project is all about Smart Phones, their history, features and the features of some popular Smart Phones. Also, a feature of filtering Smart Phones according to our demand is also made available.

To make all this possible the features of C++ like File handling, Functions, etc. are availed. Many user defined Header files, text files are used for appropriate use.

For displaying images and text at different places, text files named with file extension (.dat) are used. For Large sized Texts, a file named (ab.dat) is used which is coded with 5 X 5 size of each English Alphabet to make work much easy. Functions for animation are solely made by me are used to make this project attractive.

Same work is done for displaying images too.

Features are provided at their best to enhance the beauty of this project.

A application with (.exe) file extension is made which can be directly used in Windows PCs to avail the features.

A security is also maintained by providing a login screen for allowing only registered users in. You can make your own account for further use.

Using DOS-BOX is recommended to be used for best resolution and working else application file itself can be used.

.

* INTEGER (int)
* INTEGER ARRAY (int[])
* CHARACTER (char)
* CHARACTER STRING (char[])
* UNSIGNED LONG INTEGER (unsigned long)
* FLOATING INTEGER (float)
* iostream.h
* conio.h
* dos.h
* stdlib.h
* stdio.h
* fstream.h
* string.h
* ctype.h
* MI (MOBILE INFO)
* CHARACTER STRINGS OF LENGTH 40 cname, mobnm, pro, os, sensors
* INTEGERS

year, battery, weight, net

* INTEGER ARRAYS

price[5], dim[3], cam[2], mem[2]

* FLOATING INTEGER

osver

* ID (ACCOUNT FOR LOGIN)
* CHARACTER STRINGS OF LENGTH 12 un, pass
* CHARACTER STRING OF LENGTH 30

email

* CHARACTER STRINGS OF LENGTH 20 mono, hintq, hinta
* Appropriate functions to give and take values assigned to each variable

#include"header\lavish.h"

void main()

{ welcome();

overview();

guideline();

login();

}

#include<iostream.h>

#include<conio.h>

#include<dos.h>

#include<process.h>

#include<stdio.h>

#include<fstream.h>

#include<string.h>

#include"header\main.h"

#include"header\fun.h"

#include"header\pass.h"

void welcome()

{

clrscr();

int i,j,k,n;

char s[80];

delay(1500);

textmode(C80);

halfb(1,1,80,24,1,30);

halfb(1,3,80,24,10,30);

halfb(1,5,80,24,9,30);

ifstream fin("data\\text\\ls.dat");

for(i=0;i<=23;i++)

{ gotoxy(34,1);

if(i>0&&i<11) gotoxy(34,i);

if(i>=11&&i<17) gotoxy(22,i);

if(i>=17&&i<=23) gotoxy(16,i);

fin.getline(s,60,'p');

for(j=0;s[j]!=NULL;j++)

{ if(s[j]=='l'||s[j]=='s')

s[j]='Û';

}

textcolor(10); textbackground(1);

cprintf(s);

delay(30);

}

fin.close();

delay(700);

downb(6);

lcon("presents",18,7,3,6);

lcon("a",9,14,3,6);

lcon("guide",23,14,3,6);

lcon("on",61,14,3,6);

delay(700);

upb(4);

lcon("smart",26,7,0,12);

lcon("phones",23,14,0,12);

delay(700);

downb(4);

fin.open("data\\text\\bp.dat");

for(i=0;i<20;i++)

{ fin.getline(s,80,'p');

for(j=0;s[j]!=NULL;j++)

{ if(s[j]=='l')

s[j]='Û';

if(s[j]=='k')

s[j]=char(223);

if(s[j]=='o')

s[j]=char(220);

}

textcolor(14);

gotoxy(28,3);

if(i>1) gotoxy(28,2+i);

cprintf(s);

delay(30);

}

delay(700);

upb(3);

}

void overview()

{

int i,j,n;

char s[80],s2[81];

hbox(2,1,80,24,"Û",1,14);

hbox(3,2,79,23,":",1,3);

lcon("overview",18,5,0,3);

hbox(11,18,65,11,"Û",1,14);

ifstream fin("data\\text\\ov.dat");

for(i=0;i<6;i++)

{

fin>>n;

fin.getline(s,80,'\*');

for(j=0;j<n;j++)

s2[j]=' ';

int k=j;

for(j=0;s[j]!=NULL;j++)

s2[k+j]=s[j];

s2[k+j]=NULL;

textcolor(0);

textbackground(3);

gotoxy(4,14+i);

cprintf(s2);

delay(40);

}

delay(700);

fin.close();

downb(2);

}

void guideline()

{ int i,j,n;

char s[80];

hbox(2,1,80,24,"Û",10,14);

hbox(3,2,79,23,":",10,2);

lcon("guideline",15,5,0,10);

hbox(11,15,67,11,"Û",0,14);

ifstream fin("data\\text\\gl.dat");

for(i=0;i<6;i++)

{ char s2[81];

fin>>n;

fin.getline(s,80,'\*');

for(j=0;j<n;j++)

s2[j]=' ';

int k=j;

for(j=0;s[j]!=NULL;j++)

s2[k+j]=s[j];

s2[k+j]=NULL;

* GSMARENA WEBSITE
* WIKIPEDIA WEBSITE
* COMPUTER SCIENCE WITH C++ CLASS XII SUMITA ARORA TEXT BOOK

textcolor(0); textbackground(2);

gotoxy(11,14+i);

cprintf(s2);

delay(30);

}

fin.close();

delay(700);

}

login()

{ clrscr();

char k='0', s1[50]=">> NEW USER? CREATE A NEW ACCOUNT NOW!";

char s2[30]=">> EXISTING USER? LOGIN NOW!";

char s3[30]=">> CHANGE PASSWORD";

char s4[30]=">> FORGOT PASSWORD? RENEW IT!";

char s5[80]="(ARROW KEYS / W,A,S,D)-SELECTION || 'C'-CONFIRMATION || 'M'-ADMINISTRATOR";

int ch=1,f=0;

for(int i=0;i<=14;i++)

{ textbackground(i);

clrscr();

delay(40);

}

textbackground(1);

clrscr();

textcolor(1);

hbox(2,1,80,24,"Û",15,1);

lcon("login",26,4,15,1);

hbox(10,26,55,10,"Û",7,7);

fbox(12,18,62,22,"Û",0,7);

hbox(12,18,62,22,"Û",15,2);

textcolor(15); textbackground(0);

gotoxy(22,14); cprintf(s1);

textcolor(15); textbackground(1);

gotoxy(22,16); cprintf(s2);

gotoxy(22,18); cprintf(s3);

gotoxy(22,20); cprintf(s4);

textcolor(15); textbackground(1);

gotoxy(3,23); cprintf(s5);

gotoxy(70,4); cprintf("'E'-EXIT");

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A' ||k==72||k==75 )&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' ||k==80||k==77 ) &&ch!=4)

ch+=1;

else if(k=='c'||k=='C'||k==13)

{ fbox(12,3,78,23,"Û",1,1);

hbox(10,26,55,10,"Û",7,1);

textcolor(0); textbackground(6);

switch(ch)

{ case 1: newp(); break;

case 2: loginsub(); break;

case 3: cp(); break;

case 4: fp(); break;

}

f=1;

}

else if(k=='e'||k=='E')

exite();

else if(k=='m'||k=='M')

{ admin(); f=1; }

if(f)

{ hbox(10,26,55,10,"Û",7,1,0);

fbox(12,4,76,23,"Û",1,1,0);

fbox(12,18,62,22,"Û",0,7,0);

hbox(12,18,62,22,"Û",15,2,0);

textcolor(15); textbackground(0);

gotoxy(22,14); cprintf(s1);

textcolor(0); textbackground(7);

gotoxy(22,16); cprintf(s2);

gotoxy(22,18); cprintf(s3);

gotoxy(22,20); cprintf(s4);

textcolor(15); textbackground(1);

gotoxy(3,23); cprintf(s5);

gotoxy(70,4); cprintf("'E'-EXIT");

gotoxy(70,5); cprintf(" ");

f=0;

}

switch(ch)

{ case 1: textcolor(15); textbackground(0);

gotoxy(22,14); cprintf(s1);

textcolor(15); textbackground(1);

gotoxy(22,16); cprintf(s2);

gotoxy(22,18); cprintf(s3);

gotoxy(22,20); cprintf(s4); break;

case 2: textcolor(15); textbackground(1);

gotoxy(22,14); cprintf(s1);

textcolor(15); textbackground(0);

gotoxy(22,16); cprintf(s2);

textcolor(15); textbackground(1);

gotoxy(22,18); cprintf(s3);

gotoxy(22,20); cprintf(s4); break;

case 3: textcolor(15); textbackground(1);

gotoxy(22,14); cprintf(s1);

gotoxy(22,16); cprintf(s2);

textcolor(15); textbackground(0);

gotoxy(22,18); cprintf(s3);

textcolor(15); textbackground(1);

gotoxy(22,20); cprintf(s4); break;

case 4: textcolor(15); textbackground(1);

gotoxy(22,14); cprintf(s1);

gotoxy(22,16); cprintf(s2);

gotoxy(22,18); cprintf(s3);

textcolor(15); textbackground(0);

gotoxy(22,20); cprintf(s4); break;

}

}

}

void halfb(int t, int l, int r, int b, int c, int d=5)

{ int i,j,k;

textcolor(c);

for(i=r/2,k=(r/2)+1;i>=l;i--,k++)

{ for(j=t;j<b+1;j++)

{ gotoxy(i,j); cprintf("Û");

if(k==80&&j==25)

{ gotoxy(k,j); cprintf("Û\b"); }

else

{ gotoxy(k,j); cprintf("Û"); }

}

delay(d);

}

}

downb(int c)

{ int i,j;

textcolor(c);

for(i=24;i>=1;i--)

{ for(j=1;j<81;j++)

{ gotoxy(j,i); cprintf("Û"); }

delay(2);

}

return 0;

}

upb(int c)

{ int i,j;

textcolor(c);

for(i=1;i<25;i++)

{ for(j=1;j<=80;j++)

{ gotoxy(j,i); cprintf("Û");

}

delay(2);

}

return 0;

}

void hbox(int t=2,int l=1,int r=80,int b=24,char p[]="" , int c=7, int bg=0,int d=5)

{ int i,j,tb=b,tr=r,rr,bb;

textcolor(c);

textbackground(bg);

if((r-l)%2==0) rr=((r-l)/2)+1;

else rr=((r-l)/2)+1;

if((b-t)%2==0) bb=((b-t)/2)+1;

else bb=((b-t)/2)+1;

for(i=1 ; i<=rr ; i++)

{ gotoxy(i+l-1,t); cprintf(p);

gotoxy(tr,t); cprintf(p);

gotoxy(i+l-1,b); cprintf(p);

gotoxy(tr,b); cprintf(p);

if(i<=bb)

{ gotoxy(l,i+t-1); cprintf(p);

gotoxy(l,tb); cprintf(p);

gotoxy(r,i+t-1); cprintf(p);

gotoxy(r,tb); cprintf(p);

}

tb--;

tr--;

delay(d);

}

}

void fbox (int t=2,int l=1,int r=80,int b=24,char p[]="" , int c=7, int bg=0, int d=5)

{ int tt;

if((b-t)<(r-l))

tt=((b-t)/2)+1;

else

tt=((r-l)/2)+1;

for(int i=0 ; i<=tt ; i++)

hbox(t+i,l+i,r-i,b-i,p,c,bg,d);

}

void lcon(char s[],int x, int y,int c ,int bg)

{ int i,j,k,n;

textcolor(c);

textbackground(bg);

char ch,s2[100];

for(i=0 ; s[i]!=NULL ; i++)

{ ifstream fin("data\\text\\ab.dat");

while(!fin.eof())

{ fin.get(ch);

if(ch==s[i])

break;

}

for(j=0 ; j<5 ; j++)

{ fin.getline(s2,6,'+');

for(k=0 ; s2[k]!=NULL ;k++)

if(s2[k]=='\*')

s2[k]='Û';

gotoxy(x,y+j);

cprintf(s2);

delay(5);

}

x+=6;

fin.close();

}

}

void mosaic(int c)

{ textcolor(c);

int x,y;

ifstream fin("data\\text\\random.dat");

for(int i=0 ; i<=10000 ; i++)

{ fin>>x; fin>>y;

gotoxy(x,y);

cprintf("Û");

}

fin.close();

textbackground(c);

clrscr();

}

#include"header\mm.h"

class id

{ char un[12],pass[12],email[30],mono[20],hintq[20],hinta[20];

public:

giveun(char s[])

{strcpy(un,s);

return 0;

}

givepass(char s[])

{strcpy(pass,s);

return 0;

}

giveemail(char s[])

{strcpy(email,s);

return 0;

}

givemono(char s[])

{strcpy(mono,s);

return 0;

}

givehintq(char s[])

{strcpy(hintq,s);

return 0;

}

givehinta(char s[])

{strcpy(hinta,s);

return 0;

}

char\* getun()

{return un ;}

char\* getpass()

{return pass ;}

char\* getemail()

{return email ;}

char\* getmono()

{return mono ;}

char\* gethintq()

{return hintq ;}

char\* gethinta()

{return hinta ;}

};

int acchk(char s[])

{ id i1;

int i=1;

ifstream fin("data\\text\\id.dat",ios::binary);

while(!fin.eof())

{ fin.read( (char \*)&i1,sizeof(i1) );

if(strcmp(s,i1.getun())==0)

{ fin.close();

return i;

}

}

fin.close();

i=0;

return i;

}

void input(id &i1)

{ char s[50];

gotoxy(9,18);

cprintf("ENTER USERNAME: ");

gotoxy(26,18); gets(s); i1.giveun(s);

fbox(17,8,70,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER PASSWORD: ");

gotoxy(25,18); gets(s); i1.givepass(s);

fbox(16,8,70,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER EMAIL ID: ");

gotoxy(25,18); gets(s); i1.giveemail(s);

fbox(16,8,70,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER MOBILE NO: ");

gotoxy(26,18); gets(s); i1.givemono(s);

fbox(16,8,70,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER HINT QUESTION: ");

gotoxy(30,18); gets(s); i1.givehintq(s);

fbox(16,8,70,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER HINT QUESTION'S ANSWER: ");

gotoxy(39,18); gets(s); i1.givehinta(s);

}

void print(id i1)

{

textcolor(15); textbackground(1);

gotoxy(9,20);

cprintf("USERNAME: "); cprintf(i1.getun()); getch();

fbox(20,8,72,21,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,20);

cprintf("PASSWORD: "); cprintf(i1.getpass()); getch();

fbox(20,8,72,21,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,20);

cprintf("EMAIL ID: "); cprintf(i1.getemail()); getch();

fbox(20,8,72,21,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,20);

cprintf("MOBILE NO: "); cprintf(i1.getmono()); getch();

fbox(20,8,72,21,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,20);

cprintf("HINT QUESTION: "); cprintf(i1.gethintq()); getch();

fbox(20,8,72,21,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,20);

cprintf("HINT QUESTION'S ANSWER: "); cprintf(i1.gethinta());

}

void pall()

{ hbox(12,26,55,14,"\*",15,1);

hbox(14,7,74,22,"\*",15,1); textcolor(15);

textbackground(1);

gotoxy(31,13); cprintf(">> PRINT ALL DATA <<");

id i1;

char s[20],p[20]="admin";

int i=1,l=0,k=0;

gotoxy(25,16);

cprintf("> ENTER ADMINISTRATOR PASSWORD: ");

gotoxy(57,16); gets(s);

if(strcmp(s,p)!=0)

{ gotoxy(20,19);

cprintf("ACCESS DENIED! ENTER ANY KEY TO RETURN BACK");

getch(); return;

}

else

{ gotoxy(25,17);

cprintf("# FORMAT : USERNAME,PASSWORD");

gotoxy(9,18); cprintf(" ");

gotoxy(9,18);

ifstream fin("data\\text\\id.dat",ios::binary);

while(!fin.eof())

{ fin.read( (char \*)&i1,sizeof(i1) );

if(fin.eof()) break;

cout<<" "<<i<<".) ";

cprintf(" ");

cprintf(i1.getun());

cprintf(" , ");

cprintf(i1.getpass());

i++;

l+=strlen(i1.getun());

l+=strlen(i1.getpass());

l+=10;

if(l>(61+(k\*61))) {gotoxy(9,19+k); k++;}

}

fin.close();

}

getch(); return;

}

void delall()

{ hbox(12,26,55,14,"\*",15,1);

hbox(14,7,74,22,"\*",15,1);

textcolor(15); textbackground(1);

gotoxy(30,13); cprintf(">> DELETE ALL DATA <<");

id i1;

char s[20],p[20]="admin";

gotoxy(25,16);

cprintf("> ENTER ADMINISTRATOR PASSWORD: ");

gotoxy(57,16); gets(s);

if(strcmp(s,p)!=0)

{ gotoxy(20,19);

cprintf("ACCESS DENIED! ENTER ANY KEY TO RETURN BACK");

getch(); return;

}

else

{ ofstream fout("data\\text\\id.dat",ios::binary);

fout.close();

gotoxy(15,19);

cprintf("ALL DATA CLEARED ! ENTER ANY KEY TO KEY TO RETURN BACK");

}

getch(); return;

}

void admin()

{ char s1[50]= "> PRINT ALL THE ACCOUNTS DATA" ;

char s2[50]= "> DELETE ALL THE ACCOUNTS DATA" ;

char k='0';

int ch=1,f=0;

fbox(12,3,78,23,"Û",1,0);

textcolor(0); textbackground(14);

hbox(12,29,51,14,"\*",15,1);

hbox(14,7,74,22,"\*",15,1);

gotoxy(31,13); cprintf(">> ADMINISTRATOR <<");

textcolor(15); textbackground(1);

gotoxy(20,16); cprintf(s1);

textcolor(0); textbackground(7);

gotoxy(20,18); cprintf(s2);

textcolor(15); textbackground(1);

gotoxy(70,4); cprintf("'E'-EXIT");

gotoxy(70,5); cprintf("'B'-BACK");

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A' ||k==72||k==75 )&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' ||k==80||k==77) &&ch!=2)

ch+=1;

else if(k=='c'||k=='C'||k==13)

{ fbox(12,3,78,23,"Û",1,0,0);

hbox(12,26,55,14,"\*",15,1);

textcolor(15); textbackground(1);

switch(ch)

{ case 1: pall(); f=0; break;

case 2: delall(); f=0; break;

}

}

else if(k=='e'||k=='E')

exite();

else if(k=='b'||k=='B')

return;

if(f)

{

fbox(12,3,78,23,"Û",1,0,0);

hbox(12,29,51,14,"\*",15,1,0);

hbox(14,7,74,22,"\*",15,1,0);

gotoxy(31,13); cprintf(">> ADMINISTRATOR <<");

textcolor(15); textbackground(1);

gotoxy(20,16); cprintf(s1);

textcolor(0); textbackground(7);

gotoxy(20,18); cprintf(s2);

textcolor(15); textbackground(1);

gotoxy(70,4); cprintf("'E'-EXIT");

gotoxy(70,5); cprintf("'B'-BACK");

}

switch(ch)

{ case 1: textcolor(15); textbackground(1);

gotoxy(20,16); cprintf(s1);

textcolor(0); textbackground(7);

gotoxy(20,18); cprintf(s2); break;

case 2: textcolor(0); textbackground(7);

gotoxy(20,16); cprintf(s1);

textcolor(15); textbackground(1);

gotoxy(20,18); cprintf(s2); break;

}

}

}

void newp()

{ hbox(12,26,55,14,"\*",15,1);

hbox(14,7,74,22,"\*",15,1); textcolor(15);

textbackground(1);

gotoxy(29,13); cprintf(">> CREATE NEW ACCOUNT <<");

ofstream fout("data\\text\\id.dat",ios::app|ios::binary);

if(!fout) cprintf("ERROR");

id i1;

input(i1);

if(acchk(i1.getun())!=0)

{ gotoxy(17,19);

cprintf("AN ID WITH SAME USERNAME ALREADY EXISTS.. TRY AGAIN..");

}

else

{ fout.write((char \*)&i1,sizeof(i1));

gotoxy(17,19); cprintf("CONGRATS! YOU ARE NOW A REGISTERED USER");

fout.close();

}

getch(); return;

}

void loginsub()

{ hbox(12,25,56,14,"\*",15,1);

hbox(14,7,74,22,"\*",15,1);

textcolor(15); textbackground(1);

gotoxy(27,13); cprintf(">> LOGIN TO YOUR ACCOUNT <<");

id i1,i2;

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18); cprintf("ENTER YOUR USERNAME: ");

gotoxy(30,18); gets(i1.getun());

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18); cprintf("ENTER YOUR PASSWORD: ");

gotoxy(30,18);

gets(i1.getpass());

ifstream fin("data\\text\\id.dat",ios::binary);

if(!fin) cout<<"ERROR";

while(!fin.eof())

{ fin.read( (char \*)&i2,sizeof(i2) );

if(fin.eof()) break;

if((strcmp(i1.getun(),i2.getun())==0)&&

(strcmp(i1.getpass(),i2.getpass())==0))

{ fin.close();

gotoxy(9,20);

cprintf("LOGIN SUCCESSFULL");

delay(1000);

mainmenu();

}

}

gotoxy(9,20);

cprintf("WRONG PASSWORSD/(&)USERNAME! TRY AGAIN..");

getch(); return;

}

void cp()

{ hbox(12,26,55,14,"\*",15,1);

hbox(14,7,74,22,"\*",15,1);

textcolor(15); textbackground(1);

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(28,13);

cprintf(">> CHANGE YOUR PASSWORD <<");

id i1,i2;

int j;

char s[30],s2[20];

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER YOUR USERNAME: ");

gotoxy(30,18);

gets(s); i1.giveun(s);

if(acchk(i1.getun())==0)

{ gotoxy(9,19);

cprintf("USERNAME DOES NOT EXISTS! TRY AGAIN..");

}

else

{ fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER YOUR OLD PASSWORD: ");

gotoxy(34,18); gets(s); i1.givepass(s);

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER YOUR NEW PASSWORD: ");

gotoxy(34,18); gets(s2);

fstream file("data\\text\\id.dat",ios::in|ios::out|ios::binary);

while(!file.eof())

{ file.read( (char \*)&i2,sizeof(i2) );

if(strcmp(i2.getpass(),i1.getpass())==0)

{ strcpy(i2.getpass(),s2);

int p=-sizeof(i1);

file.seekg(p,ios::cur);

file.write( (char \*)&i2,sizeof(i2) );

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("PASSWORD CHANGED SUCCESSFULLY! ");

gotoxy(9,19);

textcolor(15); textbackground(1);

cprintf("NOW, YOUR DETAILS ARE AS FOLLOWS PROCEED BY PRESSING ANY KEY: ");

getch();

print(i2);

getch(); return;

}

else

{ gotoxy(9,19);

cprintf("DETAILS ENTERED BY YOU ARE WRONG RETURN BACK BY PRESSING ANY KEY ");

}

}

}

getch(); return;

}

void fp()

{ hbox(12,26,55,14,"\*",15,1);

hbox(14,7,74,22,"\*",15,1);

textcolor(15); textbackground(1);

gotoxy(29,13); cprintf(">> RESET YOUR PASSWORD <<");

id i1,i2;

char s[20];

fbox(16,8,70,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ENTER YOUR USERNAME: ");

gets(s); i1.giveun(s);

if(acchk(i1.getun())==0)

{ fbox(16,8,70,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,19);

cprintf("USERNAME DOES NOT EXISTS! TRY AGAIN..");

}

else

{ fstream file("data\\text\\id.dat",ios::in|ios::out|ios::binary);

while(!file.eof())

{ if(file.eof()) break;

file.read( (char \*)&i2,sizeof(i2) );

if(strcmp(i2.getun(),i1.getun())==0)

{ fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ANSWER YOUR GIVEN HINT QUESTION: ");

cprintf(i2.gethintq()); cprintf("? ");

gotoxy(9,19); cprintf(" ");

gotoxy(9,19); gets(s); i1.givehinta(s);

if(strcmp(i1.gethinta(),i2.gethinta())==0)

{ gotoxy(9,19); cprintf(" ");

gotoxy(9,19); cprintf("ENTER NEW PASSWORD: ");

gets(i2.getpass());

int p=-sizeof(i1);

file.seekg(p,ios::cur);

file.write( (char \*)&i2,sizeof(i2) );

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("PASSWORD RESET SUCCESSFULLY! ");

gotoxy(9,19);

textcolor(15); textbackground(1);

cprintf("NOW, YOUR DETAILS ARE AS FOLLOWS PROCEED BY PRESSING ANY KEY: ");

getch(); print(i2);

file.close();

getch(); return;

}

else

{ fstream file("data\\text\\id.dat",ios::in|ios::out|ios::binary);

while(!file.eof())

{ if(file.eof()) break;

file.read( (char \*)&i2,sizeof(i2) );

if(strcmp(i2.getun(),i1.getun())==0)

{ fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("ANSWER YOUR GIVEN HINT QUESTION: ");

cprintf(i2.gethintq()); cprintf("? ");

gotoxy(9,19); cprintf(" ");

gotoxy(9,19); gets(s); i1.givehinta(s);

if(strcmp(i1.gethinta(),i2.gethinta())==0)

{ gotoxy(9,19); cprintf(" ");

gotoxy(9,19); cprintf("ENTER NEW PASSWORD: ");

gets(i2.getpass());

int p=-sizeof(i1);

file.seekg(p,ios::cur);

file.write( (char \*)&i2,sizeof(i2) );

fbox(16,8,72,19,"Û",1,0,0);

textcolor(15); textbackground(1);

gotoxy(9,18);

cprintf("PASSWORD RESET SUCCESSFULLY! ");

gotoxy(9,19);

textcolor(15); textbackground(1);

cprintf("NOW, YOUR DETAILS ARE AS FOLLOWS PROCEED BY PRESSING ANY KEY: ");

getch(); print(i2);

file.close();

getch(); return;

}

else

{ gotoxy(9,19);

cprintf("DETAILS ENTERED BY YOU ARE WRONG RETURN BACK BY PRESSING ANY KEY ");

}

}

}

}

getch(); return;

}

#include"header\mm2.h"

void mainmenu()

{ int i,j,ch=1;

char s[20],k='0';

mosaic(1);

hbox(2,2,79,24,"Û",10,1);

lcon("welcome",4,4,14,1);

lcon("to",47,4,10,1);

lcon("the",60,4,14,1);

lcon("wonderful",15,11,10,1);

lcon("world",14,18,14,1);

lcon("of",58,18,10,1);

delay(300);

mosaic(2);

hbox(2,2,79,24,"Û",1,10);

lcon("smart",26,7,1,10);

lcon("phones",23,14,1,10);

ifstream fin("data\\images\\sp.im");

for(i=0;i<20;i++)

{ fin.getline(s,80,'p');

for(j=0;s[j]!=NULL;j++)

{ if(s[j]=='l')

s[j]='Û';

if(s[j]=='k')

s[j]=char(223);

if(s[j]=='u')

s[j]=char(222);

if(s[j]=='o')

s[j]=char(220);

}

textcolor(11);

gotoxy(6,8);

if(i>1) gotoxy(6,7+i);

cprintf(s);

delay(30);

}

fin.close();

fin.open("data\\images\\pro.im");

for(i=0;i<20;i++)

{ fin.getline(s,80,'p');

for(j=0;s[j]!=NULL;j++)

{ if(s[j]=='l')

s[j]='Û';

if(s[j]=='k')

s[j]=char(223);

if(s[j]=='u')

s[j]=char(222);

}

textcolor(11);

gotoxy(60,4);

if(i>1) gotoxy(60,3+i);

cprintf(s);

delay(30);

}

fin.close();

fin.open("data\\images\\bat.im");

for(i=0;i<20;i++)

{ fin.getline(s,80,'p');

for(j=0;s[j]!=NULL;j++)

{ if(s[j]=='Z')

s[j]='Û';

if(s[j]=='K')

s[j]=char(223);

if(s[j]=='N')

s[j]=char(222);

if(s[j]=='l')

s[j]='Û';

if(s[j]=='k')

s[j]=char(223);

if(s[j]=='u')

s[j]=char(222);

}

textcolor(11);

gotoxy(60,14);

if(i>1) gotoxy(60,13+i);

cprintf(s);

delay(30);

}

fin.close();

int f=0;

delay(300);

mosaic(1);

hbox(2,2,79,24,"Û",14,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("main",15,4,10,6);

lcon("menu",44,4,10,6);

fbox(11,3,43,23,"Û",3,1);

fbox(11,44,78,23,"Û",2,1);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û SMART PHONES BRIEF INFORMATION");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,14); cprintf("Û SOME POPULAR SMART PHONES DESCRIPTION");

gotoxy(4,16); cprintf("Û SMART PHONES FILTERING ");

gotoxy(4,18); cprintf("Û ADD / MODIFY / EXPORT DATA ");

gotoxy(4,20); cprintf("Û STATUS");

gotoxy(4,22); cprintf("Û AMAZE ME");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

gotoxy(45,19); cprintf(">> 'L'-HELP | 'B'-ABOUT");

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A'||k==72||k==75 )&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' ||k==80||k==77 ) &&ch!=6)

ch+=1;

else if(k=='c'||k=='C'||k==13)

{ textcolor(1); textbackground(3);

switch(ch)

{ case 1: info(); break;

case 2: desc(); break;

case 3: filter(); break;

case 4: add(); break;

case 5: sta(); break;

case 6: ama(); break;

}

f=1;}

else if(k=='e'||k=='E')

exite();

else if(k=='l'||k=='L')

{ help(); f=1; }

else if(k=='b'||k=='B')

{ about();f=1; }

if(f)

{ hbox(2,2,79,24,"Û",14,1,0);

fbox(3,3,78,10,"Û",6,1,0);

hbox(2,2,79,10,"Û",14,1,0);

lcon("main",15,4,10,6);

lcon("menu",44,4,10,6);

fbox(11,3,43,23,"Û",3,1,0);

fbox(11,44,78,23,"Û",2,1,0);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û SMART PHONES BRIEF INFORMATION");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,14); cprintf("Û SOME POPULAR SMART PHONES DESCRIPTION");

gotoxy(4,16); cprintf("Û SMART PHONES FILTERING ");

gotoxy(4,18); cprintf("Û ADD / MODIFY /EXPORT DATA ");

gotoxy(4,20); cprintf("Û STATUS");

gotoxy(4,22); cprintf("Û AMAZE ME");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

gotoxy(45,19); cprintf(">> 'L'-HELP | 'B'-ABOUT");

f=0;

}

switch(ch)

{ case 1: for(i=0;i<=5;i++)

{ gotoxy(4,12+(2\*i));

if(i==0) textcolor(11);

else textcolor(1);

cprintf("Û"); } break;

case 2: for(i=0;i<=5;i++)

{ gotoxy(4,12+(2\*i));

if(i==1) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 3: for(i=0;i<=5;i++)

{ gotoxy(4,12+(2\*i));

if(i==2) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 4: for(i=0;i<=5;i++)

{ gotoxy(4,12+(2\*i));

if(i==3) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 5: for(i=0;i<=5;i++)

{ gotoxy(4,12+(2\*i));

if(i==4) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 6: for(i=0;i<=5;i++)

{ gotoxy(4,12+(2\*i));

if(i==5) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

}

#include"header\mm3.h"

#include"header\data.h"

#include"header\filter.h"

#include"header\export.h"

void help()

{ int i,j,n;

char s[80];

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("help",29,4,10,6);

ifstream fin("data\\text\\help.dat");

for(i=0;i<6;i++)

{ char s2[81];

fin>>n;

fin.getline(s,80,'\*');

for(j=0;j<n;j++)

s2[j]=' ';

int k=j;

for(j=0;s[j]!=NULL;j++)

s2[k+j]=s[j];

s2[k+j]=NULL;

textcolor(14);

textbackground(14);

gotoxy(8,14+i);

cprintf(s2);

delay(40);

}

fin.close();

getch();

return;

}

void about()

{ int i,j,n;

char s[80];

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("about",26,4,10,6);

ifstream fin("data\\text\\about.dat");

for(i=0;i<6;i++)

{ char s2[81];

fin>>n;

fin.getline(s,80,'\*');

for(j=0;j<n;j++)

s2[j]=' ';

int k=j;

for(j=0;s[j]!=NULL;j++)

s2[k+j]=s[j];

s2[k+j]=NULL;

textcolor(14); textbackground(14);

gotoxy(7,14+i);

cprintf(s2);

delay(40);

}

getch();

return;

}

void info()

{ char k='0';

int ch=1,f=0;

hbox(2,2,79,24,"Û",14,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("information",9,4,10,6);

fbox(11,3,43,23,"Û",3,1);

fbox(11,44,78,23,"Û",2,1);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û HISTORY OF SMART PHONES");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,14); cprintf("Û FEATURES OF SMART PHONES");

gotoxy(4,22); cprintf("'B'-BACK");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A' ||k=='A'||k==72||k==75 )&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' ||k=='A'||k==80||k==77 )&&ch!=2)

ch+=1;

else if(k=='c'||k=='C'||k==13)

{ fbox(3,3,78,23,"Û",6,7);

textcolor(1); textbackground(3);

switch(ch)

{ case 1: history(); f=1;break;

case 2: features(); f=1;break;

}

}

else if(k=='e'||k=='E')

exite();

else if(k=='b'||k=='B')

return;

if(f)

{ hbox(2,2,79,24,"Û",14,1,0);

fbox(3,3,78,10,"Û",6,1,0);

hbox(2,2,79,10,"Û",14,1,0);

lcon("information",9,4,10,6);

fbox(11,3,43,23,"Û",3,1,0);

fbox(11,44,78,23,"Û",2,1,0);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û HISTORY OF SMART PHONES");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,14); cprintf("Û FEATURES OF SMARTPHONES");

gotoxy(4,22); cprintf("'B'-BACK");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

f=0;

}

int i;

switch(ch)

{ case 1: for(i=0;i<2;i++)

{ gotoxy(4,12+(2\*i));

if(i==0) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 2: for(i=0;i<2;i++)

{ gotoxy(4,12+(2\*i));

if(i==1) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

}

}

}

void desc()

{ int ch=1,g=0;

char k='0';

fbox(2,2,79,24,"Û",7,1);

hbox(2,2,79,24,"Û",15,0);

lcon("description",8,4,0,15);

fbox(11,3,78,23,"Û",0,1,0);

ptext("data\\text\\dguide.dat",15,8,12,0,0);

getch();

fbox(2,2,79,24,"Û",7,1,0);

hbox(2,2,79,24,"Û",15,0,0);

lcon("brands",23,4,0,15);

fbox(11,3,78,20,"Û",0,1,0);

fbox(21,3,78,23,"Û",7,1,0);

textcolor(15); textbackground(0);

gotoxy(5,12);

cprintf("Û APPLE Û MICROMAX ");

textcolor(2); textbackground(0);

gotoxy(5,12); cprintf("Û");

textcolor(15); textbackground(0);

gotoxy(5,13);

cprintf("Û ASUS Û MICROSOFT ");

gotoxy(5,14);

cprintf("Û BLACKBERRY Û ONE PLUS ");

gotoxy(5,15);

cprintf("Û GIONEE Û OPPO ");

gotoxy(5,16);

cprintf("Û HTC Û SAMSUNG ");

gotoxy(5,17);

cprintf("Û Le ECO Û SONY ");

gotoxy(5,18);

cprintf("Û LENOVO Û XIAOMI ");

gotoxy(5,19);

cprintf("Û LG Û OTHER ");

textcolor(0); textbackground(15);

gotoxy(20,22); cprintf("'B'-BACK || 'E'-EXIT || 'C'-CONFIRMATION");

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A' ||k==72||k==75 )&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' ||k==80||k==77) &&ch!=16)

ch+=1;

else if(k=='c'||k=='C'||k==13)

{ textcolor(1); textbackground(3);

switch(ch)

{ case 1: read("APPLE"); break;

case 2: read("ASUS"); break;

case 3: read("BLACKBERRY"); break;

case 4: read("GIONEE"); break;

case 5: read("HTC"); break;

case 6: read("Le ECO"); break;

case 7: read("LENOVO"); break;

case 8: read("LG"); break;

case 9: read("MICROMAX"); break;

case 10: read("MICROSOFT"); break;

case 11: read("ONEPLUS"); break;

case 12: read("OPPO"); break;

case 13: read("SAMSUNG"); break;

case 14: read("SONY"); break;

case 15: read("XIAOMI"); break;

case 16: read("OTHER"); break;

}

g=1;

}

else if(k=='e'||k=='E')

exite();

else if(k=='b'||k=='B')

return;

if(g)

{ fbox(2,2,79,24,"Û",7,1,0);

hbox(2,2,79,24,"Û",15,0,0);

lcon("brands",23,4,0,15);

fbox(11,3,78,20,"Û",0,1,0);

fbox(21,3,78,23,"Û",7,1,0);

textcolor(15); textbackground(0);

gotoxy(5,12);

cprintf("Û APPLE Û MICROMAX ");

gotoxy(5,13);

cprintf("Û ASUS Û MICROSOFT ");

gotoxy(5,14);

cprintf("Û BLACKBERRY Û ONE PLUS ");

gotoxy(5,15);

cprintf("Û GIONEE Û OPPO ");

gotoxy(5,16);

cprintf("Û HTC Û SAMSUNG ");

gotoxy(5,17);

cprintf("Û Le ECO Û SONY ");

gotoxy(5,18);

cprintf("Û LENOVO Û XIAOMI ");

gotoxy(5,19);

cprintf("Û LG Û OTHER ");

textcolor(0); textbackground(15);

gotoxy(20,22); cprintf("'B'-BACK || 'E'-EXIT || 'C'-CONFIRMATION"); g=0;

}

int i;

switch(ch)

{ case 1: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==0) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 2: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==1) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 3: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==2) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 4: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==3) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 5: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==4) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 6: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==5) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 7: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==6) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 8: for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

textcolor(15);

cprintf("Û");

}

for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

if(i==7) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 9: for(i=0;i<=7;i++)

{ gotoxy(5,12+(i));

textcolor(15);

cprintf("Û");

}

for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==0) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 10:for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==1) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 11:for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==2) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 12:for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==3) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 13:for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==4) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 14:for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==5) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 15:for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==6) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

case 16:for(i=0;i<=7;i++)

{ gotoxy(20,12+(i));

if(i==7) textcolor(2);

else textcolor(15);

cprintf("Û");

} break;

}

}

}

void add()

{ fbox(3,3,78,23,"Û",6,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("modification",5,4,10,6);

int f=0;

fbox(11,3,43,23,"Û",3,1);

fbox(11,44,78,23,"Û",2,1);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û ADD DATA");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,14); cprintf("Û MODIFY DATA");

gotoxy(4,16); cprintf("Û EXPORT DATA");

gotoxy(4,22); cprintf("'B'-BACK");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

char k='0';

int ch=1;

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A'||k==72||k==75)&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' ||k==80||k==77) &&ch!=3)

ch+=1;

else if(k=='c'||k=='C'||k==13)

{ fbox(3,3,78,23,"Û",6,1);

textcolor(1); textbackground(3);

switch(ch)

{ case 1: addrec(); f=1; break;

case 2: modrec(); f=1; break;

case 3: exprec(); f=1; break;

}

}

else if(k=='e'||k=='E')

exite();

else if(k=='b'||k=='B')

return;

if(f)

{ hbox(2,2,79,24,"Û",14,1,0);

fbox(3,3,78,10,"Û",6,1,0);

hbox(2,2,79,10,"Û",14,1,0);

lcon("modification",5,4,10,6);

fbox(11,3,43,23,"Û",3,1,0);

fbox(11,44,78,23,"Û",2,1,0);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û ADD DATA");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,14); cprintf("Û MODIFY DATA");

gotoxy(4,16); cprintf("Û EXPORT DATA");

gotoxy(4,22); cprintf("'B'-BACK");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

f=0;

}

int i;

switch(ch)

{ case 1: for(i=0;i<=4;i+=2)

{ gotoxy(4,12+(i));

if(i==0) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 2: for(i=0;i<=4;i+=2)

{ gotoxy(4,12+(i));

if(i==2) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 3: for(i=0;i<=4;i+=2)

{ gotoxy(4,12+(i));

if(i==4) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

}

}

}

void filter()

{ fbox(3,3,78,23,"Û",6,1,0);

fbox(3,3,78,10,"Û",6,1,0);

hbox(2,2,79,10,"Û",14,1,0);

lcon("filteration",8,4,10,6);

hbox(2,2,79,24,"Û",14,1,0);

ptext("data\\text\\fguide.dat",14,7,12);

getch(); fbox(12,3,78,23,"Û",6,1,0);

while(1)

{ fbox(3,3,78,23,"Û",6,1,0);

fbox(3,3,78,10,"Û",6,1,0);

hbox(2,2,79,10,"Û",14,1,0);

lcon("filteration",8,4,10,6);

hbox(2,2,79,24,"Û",14,1,0);

fbox(12,3,78,23,"Û",6,1,0);

int fno=1,mno=0,a[150],\*p;

char s[7];

fbox(11,3,43,23,"Û",3,1,0);

fbox(11,44,78,23,"Û",2,1,0);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("1 FILTER BY COMPANY NAME");

textcolor(11); textbackground(1);

gotoxy(4,13); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,13); cprintf("2 FILTER BY PROCESSOR");

gotoxy(4,14); cprintf("3 FILTER BY OPERATING SYSTEM");

gotoxy(4,15); cprintf("4 FILTER BY CAMERA");

gotoxy(4,16); cprintf("5 FILTER BY MEMORY");

gotoxy(4,17); cprintf("6 FILTER BY PRICE");

gotoxy(4,18); cprintf("7 FILTER BY NETWORK");

gotoxy(4,19); cprintf("8 FILTER BY BATTERY");

gotoxy(4,20); cprintf("9 FILTER BY YEAR");

gotoxy(4,21); cprintf("> ENTER FILTERATION SEQUENCE: ");

textbackground(2);

gotoxy(45,12); cprintf(">> WRITE FILTERATION SEQUENCE ");

gotoxy(45,13); cprintf(" FOR FILTERING IN THAT ");

gotoxy(45,14); cprintf(" ORDER");

gotoxy(45,15); cprintf(">> 'E'- EXIT");

gotoxy(45,17); cprintf(">> 'B'- BACK");

gotoxy(45,18); cprintf(">> 0 - FINGERPRINT SCANNER");

gotoxy(34,21); gets(s);

if(s[0]=='e'||s[0]=='E')

exite();

else if(s[0]=='b'||s[0]=='B')

return;

a[0]=10;

int i,j;

for(i=0;s[i]!=NULL;i++,fno++)

{ switch(s[i])

{ case '0': p=fbysens(a); break;

case '1': p=fbycnm(a); break;

case '2': p=fbypro(a); break;

case '3': p=fbyos(a); break;

case '4': p=fbycam(a); break;

case '5': p=fbymem(a); break;

case '6': p=fbypr(a); break;

case '7': p=fbynet(a); break;

case '8': p=fbybat(a); break;

case '9': p=fbyyear(a); break;

default : fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("NO MOBILES FOUND. PRESS ANY KEY TO RETURN");

getch(); return;

}

for(j=0;\*(p+j)!=10;j++)

a[j]=\*(p+j);

a[j]=10;

mno=j;

if(fno>=1&&mno==0)

{ fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("NO MOBILES FOUND. PRESS ANY KEY TO RETURN");

getch(); return;

}

}

readno(a);

}

}

void sta()

{ mi m;

int i,n=5;

ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(0,ios::end);

i=fin.tellg();

fin.close();

n=i/sizeof(m);

fbox(3,3,78,23,"Û",6,1,0);

fbox(3,3,78,10,"Û",6,1,0);

hbox(2,2,79,10,"Û",14,1,0);

lcon("status",23,4,10,6);

if(n==0)

{ textcolor(0); textbackground(6);

gotoxy(7,15); cprintf("THIS PROGRAM IS HAS NO SMART PHONES DESCRIPTION");

}

else

{ textcolor(0); textbackground(6);

gotoxy(7,15);cprintf("THIS PROGRAM IS MAINTAINED BY A TOTAL OF "); gotoxy(48,15); cout<<n;

cprintf(" SMART PHONE'S DECRIPTION");

getch();

return;

}

}

void ama()

{ fbox(3,3,78,23,"Û",6,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("amaze",19,4,10,6);

lcon("me",51,4,10,6);

mi m;

ptext("data\\text\\ama.dat",14,9,16);

getch();

ptext("data\\text\\ama2.dat",14,4,12);

char k=getch();

if(k=='B'||k=='b') return;

fbox(12,3,78,23,"Û",6,1);

ptext("data\\text\\ama3.dat",14,4,12);

getch();

return;

}

#include"header\mm4.h"

void history()

{

hbox(2,2,79,24,"Û",14,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("history",20,4,10,6);

ptext("data\\text\\m.dat",15);

int ch=1;

char k='0';

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A'|| k==72||k==75 )&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' ||k==80||k==77 ) &&ch!=9)

ch+=1;

else if(k=='e'||k=='E')

exite();

else if(k=='b'||k=='B')

return;

switch(ch)

{ case 1: ptext("data\\text\\m1.dat"); break;

case 2: ptext("data\\text\\m2.dat"); break;

case 3: ptext("data\\text\\m3.dat"); break;

case 4: ptext("data\\text\\m4.dat"); break;

case 5: ptext("data\\text\\m5.dat"); break;

case 6: ptext("data\\text\\m6.dat"); break;

case 7: ptext("data\\text\\m7.dat"); break;

case 8: ptext("data\\text\\m8.dat"); break;

case 9: ptext("data\\text\\m9.dat"); break;

}

}

}

void features()

{ int ch=1,f=0,i;

char k='0';

hbox(2,2,79,24,"Û",14,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("features",17,4,10,6);

fbox(11,3,43,23,"Û",3,1);

fbox(11,44,78,23,"Û",2,1);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û PROCESSOR");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,13); cprintf("Û OPERATING SYSTEM");

gotoxy(4,14); cprintf("Û MEMORY");

gotoxy(4,15); cprintf("Û BATTERY");

gotoxy(4,16); cprintf("Û CAMERA");

gotoxy(4,17); cprintf("Û DISPLAY");

gotoxy(4,18); cprintf("Û BODY");

gotoxy(4,19); cprintf("Û NETWORK");

gotoxy(4,20); cprintf("Û SENSORS");

gotoxy(4,22); cprintf("'B'-BACK");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

while(1)

{ k=getch();

if((k=='2'||k=='4'||k=='w'||k=='a'|| k=='W'||k=='A' || k==72||k==75 )&&ch!=1)

ch-=1;

else if((k=='5'||k=='6'||k=='s'||k=='d' || k=='S'||k=='D' || k==80||k==77 ) &&ch!=9)

ch+=1;

else if(k=='c'||k=='C'||k==13)

{ fbox(3,3,78,23,"Û",6,1);

textcolor(1); textbackground(3);

switch(ch)

{ case 1: pro(); break;

case 2: os(); break;

case 3: mem(); break;

case 4: bat(); break;

case 5: cam(); break;

case 6: disp(); break;

case 7: body(); break;

case 8: net(); break;

case 9: sens(); break;

}

f=1;

}

else if(k=='e'||k=='E')

exite();

else if(k=='b'||k=='B')

return;

if(f)

{ hbox(2,2,79,24,"Û",14,1,0);

fbox(3,3,78,10,"Û",6,1,0);

hbox(2,2,79,10,"Û",14,1,0);

lcon("features",17,4,10,6);

fbox(11,3,43,23,"Û",3,1,0);

fbox(11,44,78,23,"Û",2,1,0);

textcolor(1); textbackground(3);

gotoxy(4,12); cprintf("Û PROCESSOR");

textcolor(11); textbackground(1);

gotoxy(4,12); cprintf("Û");

textcolor(1); textbackground(3);

gotoxy(4,13); cprintf("Û OPERATING SYSTEM");

gotoxy(4,14); cprintf("Û MEMORY");

gotoxy(4,15); cprintf("Û BATTERY");

gotoxy(4,16); cprintf("Û CAMERA");

gotoxy(4,17); cprintf("Û DISPLAY");

gotoxy(4,18); cprintf("Û BODY");

gotoxy(4,19); cprintf("Û NETWORK");

gotoxy(4,20); cprintf("Û SENSORS");

gotoxy(4,22); cprintf("'B'-BACK");

textbackground(2);

gotoxy(45,12); cprintf(">> USE ARROW KEYS OR");

gotoxy(45,13); cprintf(" W/A/S/D FOR SELECTION");

gotoxy(45,15); cprintf(">> 'C'-CONFIRMATION");

gotoxy(45,17); cprintf(">> 'E'- EXIT");

f=0;

}

switch(ch)

{ case 1: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==0) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 2: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==1) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 3: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==2) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 4: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==3) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 5: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==4) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 6: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==5) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 7: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==6) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 8: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==7) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

case 9: for(i=0;i<=8;i++)

{ gotoxy(4,12+(i));

if(i==8) textcolor(11);

else textcolor(1);

cprintf("Û");

} break;

}

}

}

void pimage(char st[],int c=15,int x=35,int y=12)

{ int i,j;

char s[80];

ifstream fin(st);

for(i=0;i<20;i++)

{ fin.getline(s,80,'p');

for(j=0;s[j]!=NULL;j++)

{ if(s[j]=='l')

s[j]='Û';

if(s[j]=='k')

s[j]=char(223);

if(s[j]=='u')

s[j]=char(222);

}

textcolor(c);

gotoxy(x,y);

if(i>1) gotoxy(x,y-1+i);

cprintf(s);

delay(20);

}

delay(700);

fin.close();

}

void ptext(char st[],int c=14,int x=7,int y=12,int tb=14,int t=6)

{ fbox(12,7,78,23,"Û",t,1,0);

int i,n,j;

char s[80];

ifstream fin(st);

for(i=0;i<12;i++)

{ char s2[81];

fin>>n;

fin.getline(s,80,'p');

for(j=0;j<n;j++)

s2[j]=' ';

int k=j;

for(j=0;s[j]!=NULL;j++)

s2[k+j]=s[j];

s2[k+j]=NULL;

for(j=0;s[j]!=NULL;j++)

{ if(s2[j]=='l')

s2[j]='Û';

if(s2[j]=='k')

s2[j]=char(223);

if(s2[j]=='o')

s2[j]=char(220);

}

textcolor(c);

textbackground(tb);

gotoxy(x,y+i);

cprintf(s2);

delay(20);

}

fin.close();

}

void pro()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("processor",15,4,10,6);

pimage("data\\images\\pro.im",15,33);

ptext("data\\text\\pro.dat",14,5);

getch();

return;

}

void os()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("os",35,4,10,6);

pimage("data\\images\\os.im",10,30);

ptext("data\\text\\os.dat",14,5);

getch();

return;

}

void bat()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("battery",20,4,10,6);

pimage("data\\images\\bat.im");

ptext("data\\text\\bat.dat",14,9);

getch();

return;

}

void cam()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("camera",23,4,10,6);

pimage("data\\images\\cam.im",15,32,13);

ptext("data\\text\\cam.dat",14,8);

getch();

return;

}

void disp()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("display",20,4,10,6);

ptext("data\\text\\disp.dat");

getch();

return;

}

void body()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("body",29,4,10,6);

ptext("data\\text\\body.dat",14,9);

getch();

return;

}

void net()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("network",20,4,10,6);

pimage("data\\images\\net.im",15,25,14);

ptext("data\\text\\net.dat");

getch();

return;

}

void sens()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("sensors",20,4,10,6);

ptext("data\\text\\sens.dat",14);

getch();

return;

}

void mem()

{

fbox(3,3,78,23,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("memory",23,4,10,6);

pimage("data\\images\\mem.im");

ptext("data\\text\\mem.dat",14,6);

getch();

return;

}

void exite()

{ textbackground(1);

clrscr();

char s[10],s2[10],s3[10];

strcpy(s,"do");

strcpy(s2,"you");

strcpy(s3,"know");

int i=strlen(s)+strlen(s2)+strlen(s3)+19;

hbox(2,2,79,24,"Û",15,0);

i=(80-i)/2;

lcon(s,i/2,4,15,1);

lcon(s2,i/2+15,4,15,1);

lcon(s3,i/2+36,4,15,1);

ptext("data\\text\\dyk.dat",15,6,12,1,1);

getch(); exit(1);

}

struct mi

{ char cname[40],mobnm[40],pro[40],os[40],sensors[40];

int year,battery,price[5],dim[3],weight,cam[2],mem[2],net;

float osver;

};

void input(mi &m)

{ int i;

textcolor(15); textbackground(14);

gotoxy(12,12);

cprintf("Enter Company's Name: ");

gotoxy(34,12); gets(m.cname);

gotoxy(12,13);

cprintf("Enter Mobile's Name: ");

gotoxy(33,13); gets(m.mobnm);

gotoxy(12,14);

gotoxy(12,13);

cprintf("Enter Mobile's Year: ");

gotoxy(33,13); cin>>m.year;

gotoxy(12,14);

cprintf("Enter Processor's Name: ");

gotoxy(36,14); gets(m.pro);

gotoxy(12,15);

cprintf("Enter Operating System's Name: ");

gotoxy(43,15); gets(m.os);

gotoxy(12,15); cprintf("Enter Operating System's Version: ");

gotoxy(45,15); cin>>m.osver;

gotoxy(12,16);

cprintf("Enter Weight(in grams): ");

gotoxy(36,16); cin>>m.weight;

gotoxy(12,17);

cprintf("Enter Size in order (L,B,H) (in mm): ");

gotoxy(49,17);cin>>m.dim[0];

gotoxy(12,17);

cprintf("Enter Size in order (L,B,H): ");

gotoxy(41,17);cin>>m.dim[1];

gotoxy(12,17);

cprintf("Enter Size in order (L,B,H): ");

gotoxy(41,17);cin>>m.dim[2];

gotoxy(12,18);

unsigned long p,p2,p3,p4;

cprintf("Enter Price in order (A,E,SD,MI/FK) : ");

gotoxy(50,18); cin>>p;

gotoxy(12,18);

cprintf("Enter Price in order (A,E,SD,MI/FK): ");

gotoxy(50,18); cin>>p2;

gotoxy(12,18);

cprintf("Enter Price in order (A,E,SD,MI/FK): ");

gotoxy(50,18); cin>>p3;

gotoxy(12,18);

cprintf("Enter Price in order (A,E,SD,MI/FK): ");

gotoxy(50,18); cin>>p4;

p/=1000; p2/=1000;

p3/=1000; p4/=1000;

m.price[0]=p;

m.price[1]=p2;

m.price[2]=p3;

m.price[3]=p4;

m.price[4]=(m.price[0]+m.price[1]+m.price[2]+m.price[3])/4;

gotoxy(12,19);

cprintf("Enter Camera in order (Rear,Front) (Leave 0, if not available): ");

gotoxy(75,19); cin>>m.cam[0];

gotoxy(12,19);

cprintf("Enter Camera in order (Rear,Front) (Leave 0, if not available): ");

gotoxy(75,19); cin>>m.cam[1];

gotoxy(12,20);

cprintf("Enter Memory in order (ROM,RAM) (In GBs/MBs): ");

gotoxy(58,20);cin>>m.mem[0];

gotoxy(12,20);

cprintf("Enter Memory in order (ROM,RAM) (In GBs/MBs): ");

gotoxy(58,20);cin>>m.mem[1];

gotoxy(12,21);

cprintf("Enter Battery Capacity (in mAh): ");

gotoxy(45,21); cin>>m.battery;

gotoxy(12,22);

cprintf("Enter specific Sensors (if any): ");

gotoxy(45,22); gets(m.sensors);

gotoxy(12,23);

if(strcmp(m.sensors,"Y")==0) strcpy(m.sensors,"FINGERPRINT AND COMMON");

if(strcmp(m.sensors,"N")==0) strcpy(m.sensors,"COMMON");

cprintf("Enter Network Type (Eg.4 for 4G): ");

gotoxy(46,23);

cin>>m.net;

}

void print(mi m)

{ textcolor(15); textbackground(0);

clrscr();

hbox(2,2,79,24,"Û",7,1,0);

int l=strlen(m.mobnm);

l=(80-l)/2; textcolor(15); textbackground(0);

gotoxy(l,5); cprintf(m.mobnm);

gotoxy(32,6); cprintf("BROUGHT TO YOU BY");

l=strlen(m.cname); l=(72-l)/2;

gotoxy(l,7); cprintf(m.cname); cprintf(" IN "); cout<<m.year;

gotoxy(5,9); cprintf(">> PROCESSOR: "); cprintf(m.pro);

gotoxy(5,10); cprintf(">> OPERATING SYSTEM: "); cprintf(m.os); cprintf(" ");

cout<<m.osver;

if(strcmp(m.os,"ANDROID")==0)

{ if(m.osver==4) cprintf(" JELLY BEAN / KITKAT");

else if(m.osver==5) cprintf(" LOLLIPOP");

else if(m.osver==6) cprintf(" MARSHMALLOW");

else if(m.osver==7) cprintf(" NOUGHAT");

}

gotoxy(5,11); cprintf(">> BODY: ");

gotoxy(13,12); cprintf(">> SIZE (L,B,H): ");

gotoxy(30,12); cout<<m.dim[0]<<", " <<m.dim[1]<<", "<<m.dim[2]<<" mm";

gotoxy(13,13); cprintf(">> WEIGHT: ");

gotoxy(24,13); cout<<m.weight<<" Grams";

gotoxy(5,14); cprintf(">> STORAGE: ");

gotoxy(16,15); cprintf(">> ROM: ");

gotoxy(24,15); cout<<m.mem[0]<<" GB";

gotoxy(16,16); cprintf(">> RAM: ");

if(m.mem[1]<0)

{ m.mem[1]\*=-1;

gotoxy(24,16); cout<<m.mem[1]<<" MB";

}

else

{ gotoxy(24,16); cout<<m.mem[1]<<" GB"; }

gotoxy(5,17); cprintf(">> CAMERA: ");

gotoxy(16,17); cprintf(">> REAR: ");

if(m.cam[0]==0)

{ gotoxy(26,17); cout<<"NONE"; }

else

{ gotoxy(26,17); cout<<m.cam[0]<<" MPs"; }

gotoxy(16,18); cprintf(">> FRONT: ");

if(m.cam[1]==0)

{ gotoxy(27,18); cout<<"NONE OR VGA"; }

else

{ gotoxy(27,18); cout<<m.cam[1]<<" MPs"; }

gotoxy(5,19);

cprintf(">> PRICE (A,E,SD,MI/FK)(0-NA): "); gotoxy(36,19);

unsigned long p,p2,p3,p4;

p=m.price[0] ;

p2=m.price[1] ;

p3=m.price[2] ;

p4=m.price[3] ;

p\*=1000 ;

p2\*=1000;

p3\*=1000 ;

p4\*=1000;

cout<<p<<" , "<<p2<<" , "<<p3<<" , "<<p4<<" Rupees"<<endl;

gotoxy(5,20);

cprintf(">> BATTERY: ");

gotoxy(17,20);

cout<<m.battery<<" mAh"<<endl;

gotoxy(5,21);

cprintf(">> SPECIFIC SENSORS: ");

gotoxy(26,21);

cprintf(m.sensors);

gotoxy(5,22);

cprintf(">> NETWORK: ");

gotoxy(17,22);

cout<<m.net; cprintf(" G");

getch();

textbackground(1); clrscr();

}

void read(char s[])

{

mi m;

int a[150],i=0,ch=0;

char nm[150][30], cnm[150][30] ;

strupr(s);

ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if(strcmp(s,"OTHER")==0)

{ if(strcmp(m.cname,"APPLE")!=0&& strcmp(m.cname,"ASUS")!=0&& strcmp(m.cname,"BLACKBERRY")!=0&& strcmp(m.cname,"HTC")!=0&& strcmp(m.cname,"GIONEE")!=0&& strcmp(m.cname,"Le ECO")!=0&& strcmp(m.cname,"LENOVO")!=0&& strcmp(m.cname,"LG")!=0&& strcmp(m.cname,"MICROMAX")!=0&& strcmp(m.cname,"MICROSOFT")!=0&& strcmp(m.cname,"ONEPLUS")!=0&& strcmp(m.cname,"OPPO")!=0&& strcmp(m.cname,"SAMSUNG")!=0&& strcmp(m.cname,"SONY")!=0&& strcmp(m.cname,"XIAOMI")!=0)

{ a[i]=fin.tellg()-sizeof(m);

strcpy(nm[i],m.mobnm);

strcpy(cnm[i],m.cname);

i++;

}

}

if(strcmp(s,m.cname)==0)

{ a[i]=fin.tellg()-sizeof(m);

strcpy(nm[i],m.mobnm);

i++;

}

}

fin.close();

if(strcmp(s,"Le ECO")==0) strcpy(s,"LEECO");

int t=i;

a[i]=10;

s=strlwr(s);

while(1)

{ int l=strlen(s);

l=(80-((l\*5)+l-1))/2;

fbox(2,2,79,24,"Û",7,1,0);

hbox(2,2,79,24,"Û",15,0,0);

lcon(s,l,4,0,15);

fbox(11,3,78,20,"Û",0,1,0);

fbox(21,3,78,23,"Û",7,1,0);

if(t==0)

{ textcolor(15); textbackground(0);

gotoxy(5,12); cprintf("SORRY! NO SMART PHONES IN THIS CATEGORY. PRESS ANY KEY TO RETURN BACK");

getch(); return;

}

textcolor(15); textbackground(0);

if(strcmp(s,"other")==0)

{ for(i=0 ; a[i]!=10 ; i++)

{ if(i>7)

{ gotoxy(35,4+i);

cprintf(" ");

gotoxy(35,4+i); cout<<i+1;

cprintf(".) "); cprintf(cnm[i]);cprintf(" "); cprintf(nm[i]);

}

else

{ gotoxy(5,12+i);

cprintf(" ");

gotoxy(5,12+i); cout<<i+1;

cprintf(".) "); cprintf(cnm[i]);cprintf(" "); cprintf(nm[i]);

}

}

}

else

{ for(i=0 ; a[i]!=10 ; i++)

{ if(i>7)

{ gotoxy(35,4+i);

cprintf(" ");

gotoxy(35,4+i); cout<<i+1;

cprintf(".) "); cprintf(nm[i]);

}

else

{ gotoxy(5,12+i);

cprintf(" ");

gotoxy(5,12+i); cout<<i+1;

cprintf(".) "); cprintf(nm[i]);

}

}

}

textcolor(0); textbackground(15);

gotoxy(15,22); cprintf(">> ENTER YOUR CHOICE (0 for back): ");

gotoxy(51,22); cin>>ch;

if(ch>=1&&ch<=(i))

{ fin.open("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[ch-1]);

fin.read( (char\*) &m, sizeof(m) );

print(m); fin.close();

}

else if(ch==0) return;

else

{ gotoxy(15,22);

cprintf("OOPS! WRONG CHOICE ! TRY AGAIN BY PRESSING ANY KEY. ");

getch();

}

}

}

void addrec()

{ fbox(3,3,78,23,"Û",6,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("add",18,4,10,6);

lcon("data",40,4,10,6);

mi m;

ptext("data\\text\\addguide.dat",14,7,14);

getch();

fbox(12,3,78,23,"Û",6,1,0);

ofstream fout("data\\text\\mobinfo.dat",ios::binary|ios::app);

input(m);

fout.write( (char\*) &m, sizeof(m) );

fbox(12,3,78,23,"Û",6,1,0);

textcolor(14); textbackground(14);

gotoxy(25,19);

cprintf("\nMobile Info added successfully");

fout.close();

getch();

return;

}

void modrec()

{ fbox(3,3,78,23,"Û",6,1);

fbox(3,3,78,10,"Û",6,1);

hbox(2,2,79,10,"Û",14,1);

lcon("modify",8,4,10,6);

lcon("data",50,4,10,6);

ptext("data\\text\\modguide.dat",14,7,14);

getch(); fbox(12,3,78,23,"Û",6,1,0);

fstream file("data\\text\\mobinfo.dat",ios::in|ios::out|ios::binary);

mi m,m2;

input(m2);

while(!file.eof())

{ file.read( (char\*) &m, sizeof(m) );

if(strcmp(m.mobnm,m2.mobnm)==0)

{ if(strcmp(m2.cname,".")==0)

strcpy(m2.cname,m.cname);

if(strcmp(m2.pro,".")==0)

strcpy(m2.pro,m.pro);

if(strcmp(m2.os,".")==0)

strcpy(m2.os,m.os);

if(strcmp(m2.sensors,".")==0)

strcpy(m2.sensors,m.sensors);

if(m2.battery==0)

m2.battery=m.battery;

if(m2.price[0]==0)

m2.price[0]=m.price[0];

if(m2.price[1]==0)

m2.price[1]=m.price[1];

if(m2.price[2]==0)

m2.price[2]=m.price[2];

if(m2.price[3]==0)

m2.price[3]=m.price[3];

if(m2.price[4]==0)

m2.price[4]=m.price[4];

if(m2.dim[0]==0)

m2.dim[0]=m.dim[0];

if(m2.dim[1]==0)

m2.dim[1]=m.dim[1];

if(m2.dim[2]==0)

m2.dim[2]=m.dim[2];

if(m2.cam[0]==0)

m2.cam[0]=m.cam[0];

if(m2.cam[1]==0)

m2.cam[1]=m.cam[1];

if(m2.mem[0]==0)

m2.mem[0]=m.mem[0];

if(m2.mem[1]==0)

m2.mem[1]=m.mem[1];

if(m2.weight==0)

m2.weight=m.weight;

if(m2.net==0)

m2.net=m.net;

if(m2.osver==0)

m2.osver=m.osver;

if(m2.year==0)

m2.year=m.year;

int l=-sizeof(m);

file.seekg(l,ios::cur);

file.write( (char\*) &m2, sizeof(m2) );

fbox(12,3,78,23,"Û",6,1,0);

textcolor(14); textbackground(14);

gotoxy(25,19);

cprintf("\nMobile Info modified successfully...");

getch();

file.close();

return;

}

}

fbox(12,3,78,23,"Û",6,1,0);

textcolor(14); textbackground(14);

gotoxy(33,19);

cprintf("MOBILE NOT FOUND");

file.close();

getch();

return;

}

void readno(int a[])

{ mi m;

int i=0,ch;

char nm[150][30],cnm[150][30];

for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

strcpy(nm[i],m.mobnm);

strcpy(cnm[i],m.cname);

fin.close();

}

while(1)

{ fbox(2,2,79,24,"Û",7,1,0);

hbox(2,2,79,24,"Û",15,0,0);

lcon("filter",23,4,0,15);

fbox(11,3,78,20,"Û",0,1,0);

fbox(21,3,78,23,"Û",7,1,0);

textcolor(15); textbackground(0);

for(i=0 ; a[i]!=10 ; i++)

{ if(i>15)

{ textcolor(0); textbackground(15);

gotoxy(15,22);

cprintf("OOPS! SO MANY MOBILES IN FILTERING. PLEASE APPLY MORE.");

getch(); return;

}

if(i>7)

{ gotoxy(35,4+i);

cprintf(" ");

gotoxy(35,4+i); cout<<i+1;

cprintf(".) "); cprintf(cnm[i]); cprintf(" "); cprintf(nm[i]);}

else

{ gotoxy(5,12+i);

cprintf(" ");

gotoxy(5,12+i); cout<<i+1;

cprintf(".) "); cprintf(cnm[i]); cprintf(" "); cprintf(nm[i]);

}

}

textcolor(0); textbackground(15);

gotoxy(15,22); cprintf(">> ENTER YOUR CHOICE (0 for back): "); gotoxy(51,22); cin>>ch;

if(ch>=1&&ch<=(i))

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[ch-1]);

fin.read( (char\*) &m, sizeof(m) );

print(m); fin.close();

}

else if(ch==0) return;

else

{ gotoxy(15,22);

cprintf("OOPS! WRONG CHOICE ! TRY AGAIN BY PRESSING ANY KEY. ");

getch();

}

}

}

int\* fbycnm(int a[])

{ mi m;

int b[15],i=0,ch,j=0;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22);cprintf("ENTER COMPANY'S NAME: "); gotoxy(26,22); gets(s);

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof())

break;

fin.read( (char\*) &m, sizeof(m) );

if(strcmp(s,m.cname)==0)

{ int l=-sizeof(m);

b[i]=fin.tellg()+l;i++;

}

}

fin.close();

}

else

{ for(j=0;a[j]!=10;j++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if(strcmp(s,m.cname)==0)

{ b[i]=fin.tellg()-sizeof(m); i++; }

fin.close();

}

}

b[i]=10;

return b;

}

int\* fbypro(int a[])

{ mi m;

int b[150],i=0,ch;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER PROCESSOR'S NAME: "); gotoxy(28,22); gets(s);

int j=0;

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if(strcmp(s,m.pro)==0)

{ b[j]=fin.tellg()-sizeof(m); j++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if(strcmp(s,m.pro)==0)

{ b[j]=fin.tellg()-sizeof(m);j++; }

fin.close();

}

}

b[j]=10;

return b;

}

int\* fbyos(int a[])

{ mi m;

int b[150],i=0,ch;

float v; int j;

char nm[20][20],s[30],k='1';

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER OPERATING SYSTEM'S NAME: "); gotoxy(36,22); gets(s);

gotoxy(4,22); cprintf("ENTER OPERATING SYSTEM'S VERSION: "); gotoxy(38,22); cin>>v;

gotoxy(36,22); gotoxy(4,22); cprintf("ENTER OS VERSION'S NO. (0 FOR SAME,1 FOR GREATER AND 2 FOR LESSER): "); gotoxy(73,22); k=getch();

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if(k=='0')

{ if(strcmp(s,m.os)==0&&m.osver==v)

{ b[i]=fin.tellg()-sizeof(m); i++; }

}

if(k=='2')

{ if(strcmp(s,m.os)==0&&m.osver<=v)

{ b[i]=fin.tellg()-sizeof(m); i++; }

}

if(k=='1')

{ if(strcmp(s,m.os)==0&&m.osver>=v)

{ b[i]=fin.tellg()-sizeof(m); i++; }

}

}

fin.close();

}

else

{ i=0;

for(int j=0;a[j]!=10;j++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[j]);

fin.read( (char\*) &m, sizeof(m) );

if(k=='0')

{ if(strcmp(s,m.os)==0&&m.osver==v)

{ b[i]=fin.tellg()-sizeof(m); i++; }

}

if(k=='2')

{ if(strcmp(s,m.os)==0&&m.osver<=v)

{ b[i]=fin.tellg()-sizeof(m); i++; }

}

if(k=='1')

{ if(strcmp(s,m.os)==0&&m.osver>=v)

{ b[i]=fin.tellg()-sizeof(m); i++; }

}

fin.close();

}

}

b[i]=10;

return b;

}

int\* fbycam(int a[])

{ mi m;

int b[150],i=0,ch,rl,ru,fl,fu;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER REAR CAMERA'S LOWER LIMIT: "); gotoxy(37,22); cin>>rl;

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22);

cprintf("ENTER REAR CAMERA'S UPPER LIMIT: "); gotoxy(37,22); cin>>ru;

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER FRONT CAMERA'S LOWER LIMIT: "); gotoxy(38,22); cin>>fl;

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER FRONT CAMERA'S UPPER LIMIT: "); gotoxy(38,22); cin>>fu;

int j=0;

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if((m.cam[0]>=rl&&m.cam[0]<=ru)&& (m.cam[1]>=fl&&m.cam[1]<=fu) )

{ b[j]=fin.tellg()-sizeof(m); j++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if((m.cam[0]>=rl&&m.cam[0]<=ru)&& (m.cam[1]>=fl&&m.cam[1]<=fu) )

{ b[j]=fin.tellg()-sizeof(m); j++;}

fin.close();

}

}

b[j]=10;

return b;

}

int\* fbymem(int a[])

{ mi m;

int b[150],i=0,ch,rl,ru,fl,fu,j=0;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER ROM'S LOWER LIMIT: "); gotoxy(29,22); cin>>rl;

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER ROM'S UPPER LIMIT: "); gotoxy(29,22); cin>>ru;

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER RAM'S LOWER LIMIT: "); gotoxy(29,22); cin>>fl;

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER RAM'S UPPER LIMIT: "); gotoxy(29,22); cin>>fu;

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if((m.mem[0]>=rl&&m.mem[0]<=ru)&& (m.mem[1]>=fl&&m.mem[1]<=fu) )

{ b[j]=fin.tellg()-sizeof(m); j++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if((m.mem[0]>=rl&&m.mem[0]<=ru)&& (m.mem[1]>=fl&&m.mem[1]<=fu) )

{ b[j]=fin.tellg()-sizeof(m); j++;}

fin.close();

}

}

b[j]=10;

return b;

}

int\* fbypr(int a[])

{ mi m;

int b[150],i=0,ch,j=0,mpr=0,k=0;

unsigned long rl,ru;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22);

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22); cprintf("ENTER PRICE'S LOWER LIMIT: "); gotoxy(31,22); cin>>rl;

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22);

cprintf("ENTER PRICE'S UPPER LIMIT: "); gotoxy(31,22); cin>>ru;

ru/=1000;

rl/=1000;

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

for(j=0;j<4;j++)

{ if(m.price[j]!=0)

mpr=m.price[j];

}

if((mpr>=rl&&mpr<=ru) )

{ b[k]=fin.tellg()-sizeof(m); k++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

for(j=0;j<4;j++)

{ if(m.price[j]!=0)

mpr=m.price[j];

}

if((mpr>=rl&&mpr<=ru) )

{ b[k]=fin.tellg()-sizeof(m); k++;}

fin.close();

}

}

b[k]=10;

return b;

}

int\* fbynet(int a[])

{ mi m;

int b[150],i=0,ch,rl,ru,j=0;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22);

cprintf("ENTER NETWORK'S GENERATION: "); gotoxy(32,22); cin>>rl;

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if(m.net==rl)

{ b[j]=fin.tellg()-sizeof(m); j++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if(m.net==rl)

{ b[j]=fin.tellg()-sizeof(m); j++;}

fin.close();

}

}

b[j]=10;

return b;

}

int\* fbybat(int a[])

{ mi m;

int b[150],i=0,ch,rl,ru,j=0;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22);

cprintf("ENTER BATTERY'S LOWER CAPACITY: "); gotoxy(36,22); cin>>rl;

gotoxy(4,22); cprintf("ENTER BATTERY'S UPPER CAPACITY: "); gotoxy(36,22); cin>>ru;

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if(m.battery>=rl&&m.battery<=ru)

{ b[j]=fin.tellg()-sizeof(m); j++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if(m.battery>=rl&&m.battery<=ru)

{ b[j]=fin.tellg()-sizeof(m); j++;}

fin.close();

}

}

b[j]=10;

return b;

}

int\* fbyyear(int a[])

{ mi m;

int b[150],i=0,ch,rl,ru,j=0;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

gotoxy(4,22);

cprintf("ENTER YEAR OF LAUNCH: "); gotoxy(26,22); cin>>rl;

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if(m.year==rl)

{ b[j]=fin.tellg()-sizeof(m); j++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if(m.year==rl)

{ b[j]=fin.tellg()-sizeof(m);

j++;

}

fin.close();

}

}

b[j]=10;

return b;

}

int\* fbysens(int a[])

{ mi m;

int b[150],i=0,ch,j=0;

char nm[20][20],s[30];

fbox(22,3,78,23,"Û",7,0,0);

textcolor(0); textbackground(15);

if(a[0]==10)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

if(strcmp(m.sensors,"FINGERPRINT AND COMMON")==0)

{ b[j]=fin.tellg()-sizeof(m); j++;}

}

fin.close();

}

else

{ for(i=0;a[i]!=10;i++)

{ ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fin.seekg(a[i]);

fin.read( (char\*) &m, sizeof(m) );

if(strcmp(m.sensors,"FINGERPRINT AND COMMON")==0)

{ b[j]=fin.tellg()-sizeof(m); j++;}

fin.close();

}

}

b[j]=10;

return b;

}

void exprec()

{ mi m;

ofstream fout("data.xls");

ifstream fin("data\\text\\mobinfo.dat",ios::binary);

fout<<"COMPANY NAME"<<"\t"<<"MOBILE NAME"<<"\t"<<"PROCESSOR NAME"<<"\t"<<"OS NAME"<<"\t"<<"OS VERSION"<<"\t"<<"SENSORS"<<"\t"<<"YEAR OF LAUNCH"<<"\t"<<"BATTERY"<<"\t"<<"PRICE ON AMAZON"<<"\t"<<",EBAY"<<"\t"<<",SNAPDEAL"<<"\t"<<",FLIPKART OR MI SHOP (IN RS )"<<"\t"<<"LENGTH,"<<"\t"<<"BREADTH AND"<<"\t"<<"WIDTH (IN mm)"<<"\t"<<"WEIGHT (IN GRAMS)"<<"\t"<<"CAMERA (REAR),"<<"\t"<<"(FRONT) (IN MPs)"<<"\t"<<"MEMORY (ROM),"<<"\t"<<"(RAM)"<<"\t"<<"NETWORK GENRATION"<<"\t";

while(!fin.eof())

{ if(fin.eof()) break;

fin.read( (char\*) &m, sizeof(m) );

fout<<"\n"<<m.cname<<"\t"<<m.mobnm<<"\t"<<m.pro<<"\t"<<m.os<<"\t"<<m.osver<<"\t"<<m.sensors<<"\t"<<m.year<<"\t"<<m.battery<<"\t";

for(int i=0 ; i<4 ; i++)

{

fout<<m.price[i];

if(m.price[i]>0) fout<<",000";

fout<<"\t";

}

fout<<m.dim[0]<<"\t"<<m.dim[1]<<"\t"<<m.dim[2]<<"\t"<<m.weight<<"\t"<<m.cam[0]<<"\t"<<m.cam[1]<<"\t";

for(i=0 ; i<2 ; i++)

{ if(m.mem[i]<0)

{ m.mem[i]\*=-1;

fout<<m.mem[i]<<" MBs"<<"\t";

}

else

fout<<m.mem[i]<<" GBs"<<"\t";

}

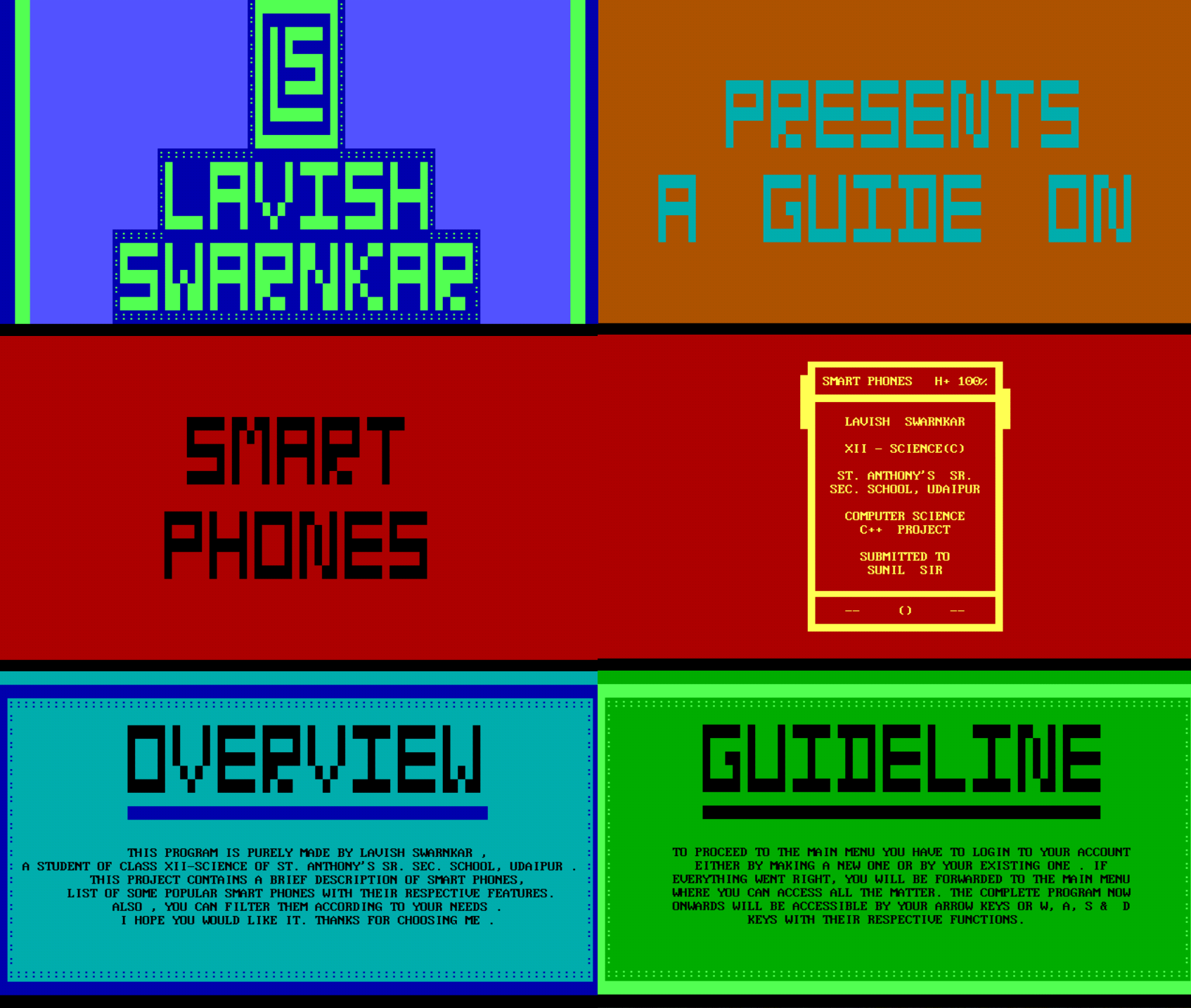
fout<<m.net<<" G"<<"\t";

}

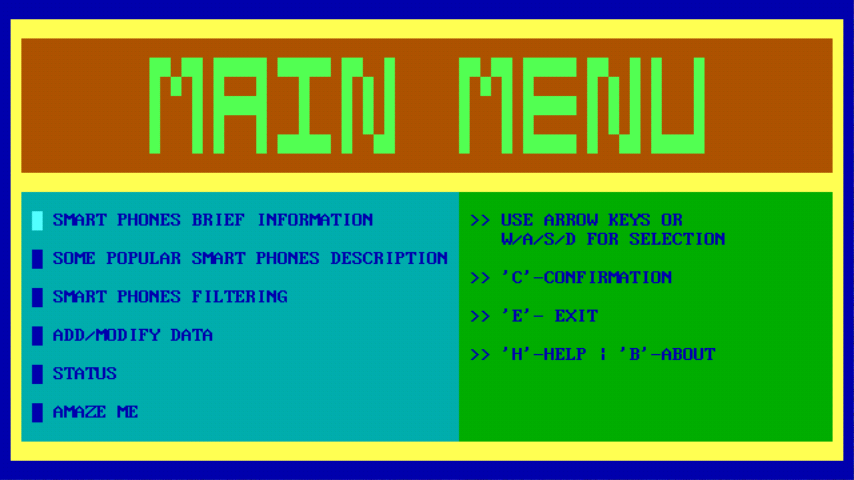
fin.close(); fout.close(); ptext("data\\text\\expguide.dat",14,9,7);

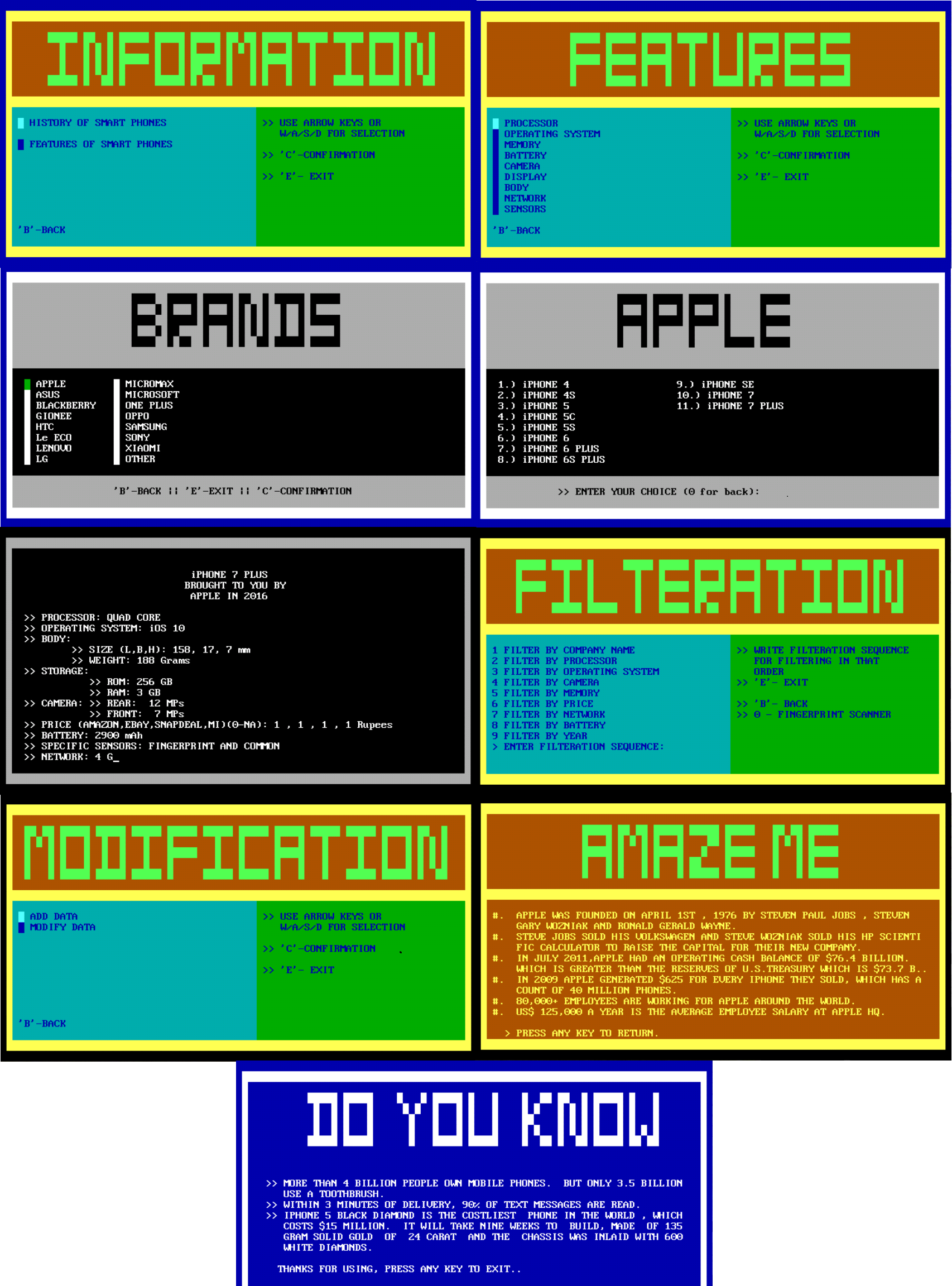
getch();

}









* INTERNET
* GSM-Arena
* Wikipedia
* Computer Science with C++ XII

By Sumita Arora