#include<stdio.h>

#include<stdlib.h>

#include<string.h>

struct user

{

int Id;

char name[50];

int age;

long int phoneNumber;

char emaild[50];

char collegeName[50];

char registrationNumber[50];

char branch[50];

int semester;

char password[50];

char languages[50];

float cgpa;

};

struct user u;

void signup(struct user u);

int ch=0;

int main()

{

FILE \*F;

F=fopen("user.txt","a");

if(F==NULL)

{

printf("cannot open file\n");

exit(0);

}

int dig=0; //count ph no.

int b1,b2,b3,b4,b5; //cmp reg no

int r1,r2,r3,r4; //cmp branch

int p; //confirm pwd

int i=0,ic=0,id=0,is=0,ia=0; //check strength of password

int j,k; //check validity of email

char pass[50]; //confirm pwd

do

{

printf("1.Sign up\n2.sign in\n3.Exit\n");

scanf("%d",&ch);

switch(ch)

{

case 1:

printf("Enter Name\n"); n:

scanf("%s",(u.name));

if((u.name[i])=='\0')

{

printf("Name can't be empty!Re-enter Name\n");

goto n;

}

printf("Enter age\n");

scanf("%d",&(u.age));

printf("Enter phone number\n"); pn:

scanf("%li",&(u.phoneNumber));

while((u.phoneNumber)!=0)

{

(u.phoneNumber)/=10;

dig++;

}

if(dig!=10)

{

printf("Phone number should consist of 10 digits only\n");

goto pn;

}

printf("Enter email\n"); em:

scanf("%s",u.emaild);

for(i=0;(u.emaild[i])!='\0';i++)

{

if((u.emaild[i])=='@')

j++;

if((u.emaild[i])=='.')

k++;

}

if((j!=1)&&(k!=1))

{

printf("Enter a valid email id\n");

goto em;

}

printf("Enter college\n"); cn:

scanf("%s",u.collegeName);

if((u.collegeName[0])=='\0')

{

printf("College name can't be empty! Re-enter college Name\n");

goto cn;

}

printf("Enter the college registration number\n"); rn:

scanf("%s",u.registrationNumber);

b1=strncmp(u.registrationNumber,"4NI",3);

b2=strncmp(u.registrationNumber,"01JST",5);

b3=strncmp(u.registrationNumber,"4MH",3);

b4=strncmp(u.registrationNumber,"4VV",3);

b5=strncmp(u.registrationNumber,"4GS",3);

if((b1!=0)&&(b2!=0)&&(b3!=0)&&(b4!=0)&&(b5!=0))

{

printf("Entered registration number doesn't belong to list\n");

goto rn;

}

printf("Enter branch\n"); br:

scanf("%s",u.branch);

r1=strcmp(u.branch,"Computer Science");

r2=strcmp(u.branch,"Information Science");

r3=strcmp(u.branch,"Electronics and communication");

r4=strcmp(u.branch,"Electrical ,Electronics and Instrumentation");

if((r1!=0)&&(r2!=0)&&(r3!=0)&&(r4!=0))

{

printf("Entered branch doesn't belong to list\n");

goto br;

}

printf("Enter semester\n"); sem:

scanf("%d",&u.semester);

if(((u.semester)<1)&&((u.semester)>8))

{

printf("Semester should be less than 8\n");

goto sem;

}

printf("Enter password\n"); pwd:

scanf("%s",u.password);

for(i=0;(u.password[i])!='\0';i++)

{

if(((u.password[i])>='0')&&((u.password[i])<='9'))

id++;

if(((u.password[i])>='A')&&((u.password[i])<='Z'))

ic++;

if(((u.password[i])>='a')&&((u.password[i])<='z'))

ia++;

else

is++;

}

if((ia<2)&&(id<2)&&(ic<2)&&(is<2))

{

printf("Password must consists of at least 2[A-Z], 2[a-z],2[!@..+\*] and 2[0-9] character\n");

goto pwd;

}

printf("Confirm password\n"); cp:

scanf("%s",pass);

p=strcmp((u.password),pass);

if(p!=0)

{

printf("Passwords don't match\n");

goto cp;

}

printf("Enter languages known\n");

scanf("%s",u.languages);

printf("Enter CGPA\n"); cg:

scanf("%f",&(u.cgpa));

if((u.cgpa)>10)

{

printf("CGPA should be less than 10 and numeric value\n");

goto cg;

}

// signup(&u);

}

}while(ch!=3);

return 0;

}