**Ex: 9 Dt:**

**Aim:**

Create a class which maintains information like username, password, age, mail id, phone number, accepted friends list, etc.,. Declare a friend function inside the class. Create 3 users such that the first user is friend with 2 and 3 (update friend list of user 1 with user names of 2 and 3). If the user1 logs in, he should see the personal information of 2 and 3, likewise 2 and 3 should see personal info of 1. However, 2 can’t see the personal information of 3 and vise versa.

**Program:**

#include<iostream>

#include<conio.h>

using namespace std;

class information

{

private:

char username[20];

char password[20];

int age;

char mail\_id[20];

long long phone\_number;

public:

void inp();

void comp(char x[20],char y[20]);

void display();

friend void user1(information x,information y,information z);

friend void other(information p,information q);

};

int f=0;

int main()

{

class information u[3];

char x[20],y[20];

int ch,i;

cout<<"registration \n";

for(i=1;i<=3;i++)

{ cout<<"user "<<i;

u[i].inp();

}

cout<<"\n give your username \t";

cin>>x;

cout<<"give your password \t";

cin>>y;

for(i=1;i<=3;i++)

{ u[i].comp(x,y);

if(f==1)

{ cout<<"welcome user"; break; }

}

if(i==1)

{ user1(u[1],u[2],u[3]); }

if(i==2)

{ other(u[2],u[1]); }

if(i==3)

{ other(u[3],u[1]); }

if(f==0)

{ cout<<"invalid username and password"; }

getch();

return 0;

}

void information::inp()

{

cout<<"\n username \t";

cin>>username;

cout<<"password \t";

cin>>password;

cout<<"age \t";

cin>>age;

cout<<"mailid \t";

cin>>mail\_id;

cout<<"phone\_number \t";

cin>>phone\_number;

}

void information::comp(char x[20],char y[20])

{ if((strcmp(username,x)==0) && (strcmp(password,y)==0))

{ f++; }

}

void information::display()

{

cout<<"\n username \t"<<username;

cout<<"\n password \t"<<password;

cout<<"\n age \t"<<age;

cout<<"\n mailid \t"<<mail\_id;

cout<<"\n phone\_number \t"<<phone\_number;

}

void user1(information x,information y,information z)

{

cout<<"1. personal info \n 2.user2 info \n 3. user3 info";

int ch;

cin>>ch;

switch(ch)

{ case 1: x.display();

break;

case 2: y.display();

break;

case 3: z.display();

break;

default: cout<<"invalid choice";

}

}

void other(information p,information q)

{ cout<<"1. personal info \n 2.user1 info \n";

int ch;

cin>>ch;

switch(ch)

{ case 1: p.display();

break;

case 2: q.display();

break;

default: cout<<"invalid choice";

}

}

**Sample Input-Output:**

Registration

User 1

Username 123

Password 123

Age 123

Mailid 123

Phone\_number 123

User 2

Username 122

Password 122

Age 122

Mailid 122

Phone\_number 122

User 3

Username 121

Password 121

Age 121

Mailid 121

Phone\_number 121

Give your username 123

Give your password 123

Welcome user

1. Personal info

2. user2 info

3. user3 info 1

Username 123

Password 123

Age 123

Mailid 123

Phone\_number 123