**USERNAME FOR TEACHER IS** **teacher\_name.**

**Password for teacher is** **teacher@123.**

**USERNAME FOR Student IS** **student\_name.**

**Password for student is** **student@123**

**USERNAME FOR course IS** **course\_name.**

**Password for course is** **course@123**

**SOURCE.CPP**

#include<iostream>

#include<fstream>

#include<string>

#include<stdlib.h>

using namespace std;

; class Addnewstudent

{

public:

char a[100];

char RollNo[100];

string FirstName,FeeSubmited, LastName, Gender, FatherProfession, BloodGroup, FatherName, Address;

int Class, RegistrationDate = 0, ContectNo = 0, ParentsContectNo = 0, code1 = 0, code2 = 0;

static int i;

char b[30];

char c[30];

char e[50];

char d[100];

int f,g;

public:

void setinputstudent() //add student

{

ofstream student;

student.open("student.txt", ios::app);

if (!student)

{

cout << "\nStudent file is not opening\n";

}

cout << "\nEnter First Name\t";

cin >> FirstName;

student <<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl<< "FirstName:"<<FirstName;

cout << "\nEnter Last Name\t";

cin >> LastName;

student << "\nLastName:"<< LastName;

while (1)

{

cout << "\nEnter Class between 1 to 10\t";

cin >> Class;

student << "\nClass:" << Class;

if (Class >= 1 && Class <= 10)

break;

cout << "\nPlease enter class between 1 to 10\t";

cin >> Class;

}

cout << "enter roll no:";

cin >> RollNo;

student << "\nRollNo:" << RollNo;

cout << "\nEnter Registration Date\t";

cin >> RegistrationDate;

student << "\nRegistrationDate:" << RegistrationDate;

cout << "\nEnter Gender\t";

cin >> Gender;

student << "\nGender:" << Gender;

cout << "\nEnter Contect No\t";

cout << "\nEnter 4 digit code No\t";

cin >> code1;

while (1)

{

if (code1 >= 0100 && code1 <= 9999)

break;

cout << "\nPlease Enter 4 digit code No\t";

cin >> code1;

}

cout << "\nEnter 7 digit number\t";

cin >> ContectNo;

while (1)

{

if (ContectNo >= 0000001 && ContectNo <= 9999999)

break;

cout << "\nPlease Enter 7 digit number\t";

cin >> ContectNo;

}

student << "\nContectNo:" << code1 << ContectNo;

cout << "\nEnter Father Name\t";

cin >> FatherName;

student << "\nFatherName:" << FatherName;

cout << "\nEnter Father Profession\t";

cin >> FatherProfession;

student << "\nFatherProfession:" << FatherProfession;

cout << "\nEnter Parent Contect No\t";

cout << "\nEnter 4 digit code No\t";

cin >> code2;

while (1)

{

if (code2 >= 0100 && code2 <= 9999)

break;

cout << "\nPlease Enter 4 digit code No\t";

cin >> code2;

}

cout << "\nEnter 7 digit number\t";

cin >> ParentsContectNo;

while (1)

{

if (ParentsContectNo >= 0000001 && ParentsContectNo <= 9999999)

break;

cout << "\nPlease Enter 7 digit number\t";

cin >> ParentsContectNo;

}

student << "\nParentContectNo:" << code2 << ParentsContectNo;

cout << "\nEnter Fee Submited\t";

cin >> FeeSubmited;

student << "\nFeeSubmited:" << FeeSubmited;

cout << "\nEnter Blood Group\t";

cin >> BloodGroup;

student << "\nBloodGroup:" << BloodGroup;

cout << "\nEnter Address\t";

cin >> Address;

student << "\nAddress:" << Address << endl;

student << "\n = \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* " << endl << endl;

student.close();

}

void getinputstudent() //veiw all added student

{

ifstream student1;

student1.open("student.txt");

if (!student1)

{

cout << "\nStudent file is not opening\n";

exit(1);

}

while (!student1.eof())

{

string a;

student1 >> a;

cout << a <<endl;

}

student1.close();

}

void edit\_student\_detail() // edit student details

{

cout << "\tEdit student detail \n";

cout << "Enter Roll number : ";

cin >> a;

ifstream s1;

s1.open("student.txt");

ofstream s2;

s2.open("edit.txt",ios::app);

s1 >> FirstName;

s1 >> LastName;

s1 >> FeeSubmited;

s1 >> Address;

s1 >> code1;

s1 >> ContectNo;

{

if (strcmp(RollNo , a))

{

s2 << FirstName;

s2 << LastName;

s2 << FeeSubmited;

s2 << Address;

s2 << code1;

s2 << ContectNo;

}

else

{

cout << "ENter First name :\n";

cin >> b;

cout << "Enter Last name \n:";

cin >> c;

cout << "Edid FEE :\n";

cin >> d;

cout << "Edit address :\n";

cin >> e;

cout << "Edit 4 digit of mobile number :\n";

cin >> g;

cout << "Edit Contect number :\n";

cin >> f;

FirstName = b;

LastName = c;

FeeSubmited = d;

Address = e;

code1 = g;

ContectNo = f;

s2 << "ROLL Number : " << RollNo << endl;

s2 << "Student name : " << FirstName << " " << LastName << endl;

s2 << "Class : " << Class << endl;

s2 << "Registration Date : " << RegistrationDate << endl;

s2 << "Gender : " << Gender << endl;

s2 << "Contect Number : " << code1 << " " << ContectNo << endl;

s2 << "FatherName : " << FatherName << endl;

s2 << "Father Profession : " << FatherProfession << endl;

s2 << "Parent Contect Number : " << code2 << " " << ParentsContectNo << endl;

s2 << "Fee Submitted : " << FeeSubmited << endl;

s2 << "Blood Group :" << BloodGroup << endl;

s2 << "Address : " << Address << endl;

}

}

s1 >> FirstName;

s1 >> LastName;

s1 >> FeeSubmited;

s1 >> Address;

s1 >> ContectNo;

s1.close();

s2.close();

}

void veiwedit\_student() // veiw edit students

{

ifstream edit2;

edit2.open("edit.txt");

if (!edit2)

{

cout << "\nStudent file is not opening\n";

exit(1);

}

while (!edit2.eof())

{

string a;

edit2 >> a;

cout << a << endl;

}

}

void update\_student\_marks() //students marks

{

int marks = 0, total\_marks = 0;

string course\_name;

cout << "\n\n\tSTUDENTS MARKS :\n";

ofstream studentmarks;

studentmarks.open("mark.txt", ios::app);

if (!studentmarks)

{

cout << "\nStudent file is not opening\n";

}

while (1)

{

cout << "\nEnter Class between 1 to 10\t";

cin >> Class;

studentmarks << "\nClass = " << Class;

if (Class >= 1 && Class <= 10)

break;

cout << "\nPlease enter class between 1 to 10\t";

cin >> Class;

}

cout << "Enter roll no:";

cin >> RollNo;

studentmarks << "\nRoll No = " << RollNo;

cout << "Enter Course name : ";

cin >> course\_name;

studentmarks << "\nTotalMarks:" << course\_name;

cout << "Enter obtained marks no:";

cin >> marks;

studentmarks << "ObtainedMarks:" << marks;

cout << "Enter Total Marks : ";

cin >> total\_marks;

studentmarks << "\nTotalMarks:" << total\_marks;

}

void veiwstudentmarks() //veiw students marks

{

ifstream studentmarks;

studentmarks.open("mark.txt");

if (!studentmarks)

{

cout << "\nStudent file is not opening\n";

exit(1);

}

while (!studentmarks.eof())

{

string a;

studentmarks >> a;

cout << a << endl;

}

}

void feestatus()

{

ofstream fee1;

fee1.open("fee.txt", ios::app);

if (!fee1)

{

cout << "\nTeacher file is not opening\n";

}

cout << "\nEnter First Name\t";

cin >> FirstName;

fee1 << "\nFirstName:" << FirstName;

cout << "Enter Last Name\t";

cin >> LastName;

fee1 << "LastName:" << LastName;

cout << "Enter roll no:";

cin >> RollNo;

fee1 << "RollNo:" << RollNo;

cout << "Enter Fee Submited\t";

cin >> FeeSubmited;

fee1 << "FeeSubmited:" << FeeSubmited;

}

void veiwfeestatus()

{

ifstream fee2;

fee2.open("fee.txt");

if (!fee2)

{

cout << "\nStudent file is not opening\n";

exit(1);

}

while (!fee2.eof())

{

string a;

fee2 >> a;

cout << a << endl;

}

}

};

int Addnewstudent::i = 1;

class Addnewteacher

{

public:

ofstream teacher;

string b, c, d;

int f,g;

char FirstNameT[100]; string CNICT = "0", LastNameT = "0", GenderT = "0", EmailT = "0",AddressT, JoiningDateT, QualificationT, DateofbirthT;

int PasswordT = 0, a = 0, ConfirmPasswordT = 0;

int ContectNoT;

string SalaryT;

int codeT = 0;

public:

void setinputteacher()

{

teacher.open("Teacher.txt" , ios::app);

if (!teacher)

{

cout << "\nTeacher file is not opening\n";

}

cout << "\nEnter First Name\t";

cin >> FirstNameT;

teacher << "\nFirst Name = " << FirstNameT;

cout << "\nEnter Last Name\t";

cin >> LastNameT;

teacher << "\nLast Name = " << LastNameT;

cout << "\nEnter Email\t";

cin >> EmailT;

teacher << "\nEmail = " << EmailT;

cout << "\nEnter Joining Date\t";

cin >> JoiningDateT;

teacher << "\nJoining Date = " << JoiningDateT;

cout << "\nEnter 4 digit Password No\t";

cin >> PasswordT;

while (1)

{

if (PasswordT >= 0100 && PasswordT <= 9999)

break;

cout << "\nPlease Enter 4 digit Password\t";

cin >> PasswordT;

}

teacher << "\nPassword = " << PasswordT;

cout << "\nPlease Re enter 4 digit Password for conformation\t";

cin >> ConfirmPasswordT;

while (1)

{

if (ConfirmPasswordT == PasswordT)

break;

cout << "\nPlease Enter correct 4 digit Password No\t";

cin >> ConfirmPasswordT;

}

teacher << "\nConfirm Password = " << ConfirmPasswordT;

cout << "\nEnter CNIC Number\t";

cin >> CNICT;

teacher << "\nCNIC = " << CNICT;

cout << "\nEnter Gender\t";

cin >> GenderT;

teacher << "\nGender = " << GenderT;

cout << "\nEnter Qualification(Computer, Mechanical, Mathematics, Commerce)\t";

cin >> QualificationT;

teacher << "\nQualification = " << QualificationT;

cout << "\nEnter Contect No\t";

cout << "\nEnter 4 digit code No\t";

cin >> codeT;

while (1)

{

if (codeT >= 0100 && codeT <= 9999)

break;

cout << "\nPlease Enter 4 digit code No\t";

cin >> codeT;

}

cout << "\nEnter 7 digit number\t";

cin >> ContectNoT;

while (1)

{

if (ContectNoT >= 0000001 && ContectNoT <= 9999999)

break;

cout << "\nPlease Enter 7 digit number\t";

cin >> ContectNoT;

}

teacher << "\nContect No = " << codeT << ContectNoT;

cout << "\nEnter Date of Birth\t";

cin >> DateofbirthT;

teacher << "\nDate of Birth = " << DateofbirthT;

cout << "\nEnter Address\t";

cin >> AddressT;

teacher << "\nAddress = " << AddressT;

cout << "\nEnter Salary\t";

cin >> SalaryT;

teacher << "\nSalary = " << SalaryT << endl << endl;

teacher.close();

}

void veiw\_teacher()

{

ifstream teacher1;

teacher1.open("Teacher.txt", ios::app);

if (!teacher1)

{

cout << "File opening error.";

exit(1);

}

while (!teacher1.eof())

{

string a;

teacher1 >> a;

cout << a << endl;

}

teacher1.close();

}

void edit\_teacher\_detail()

{

cout << "\tEdit student detail \n";

cout << "Enter Password to edit : ";

cin >> a;

ifstream s1;

s1.open("teacher.txt");

ofstream s2;

s2.open("editT.txt", ios::app);

s1 >> AddressT;

s1 >> codeT;

s1 >> ContectNoT;

s1 >> QualificationT;

s1 >> SalaryT;

{

if (!(PasswordT== a))

{

s2 << AddressT;

s2 << codeT;

s2 << ContectNoT;

s2 << QualificationT;

s2 << SalaryT;

}

else

{

cout << "ENter Address :\n";

cin >> b;

cout << "Edit 4 digit of mobile number :\n";

cin >> g;

cout << "Edit Contect number :\n";

cin >> f;

cout << "Enter Qualification \n:";

cin >> c;

cout << "Edid salary :\n";

cin >> d;

AddressT = b;

codeT = g;

ContectNoT = f;

QualificationT = c;

SalaryT = d;

s2 << "\n\n\n\tVeiw Teacher Detail :" << endl;

s2 << "\nStudent Name :" << FirstNameT << " " << LastNameT << endl;

s2 << "\nEmail :" << EmailT << endl;

s2 << "\nJoining Date : " << JoiningDateT << endl;

s2 << "\nPassword of Teacher : " << PasswordT << endl;

s2 << "\nConfirm Password : " << ConfirmPasswordT << endl;

s2 << "\nTeacher CNIC : " << CNICT << endl;

s2 << "\nGender : " << GenderT << endl;

s2 << "\nQualification : " << QualificationT << endl;

s2 << "\nContect Number : " << codeT << " " << ContectNoT << endl;

s2 << "\nDate of Birth : " << DateofbirthT << endl;

s2 << "\nAddress : " << AddressT << endl;

s2 << "\nSalary : " << SalaryT << endl;

}

}

s1 >> AddressT;

s1 >> ContectNoT;

s1 >> QualificationT;

s1 >> SalaryT;

s1.close();

s2.close();

}

void veiw\_editteacher()

{

ifstream edit1;

edit1.open("editT.txt");

if (!edit1)

{

cout << "\nStudent file is not opening\n";

exit(1);

}

while (!edit1.eof())

{

string a;

edit1 >> a;

cout << a << endl;

}

}

};

class Addnewcourse

{

protected:

string coursename = "0", parentcourse = "0", teachername="0";

int coursecode, Class ,registeredstudents;

public:

void setinputcourse()

{

ofstream course;

course.open("Course.txt",ios::app);

if (!course)

{

cout << "\nCourse file is not opening\n";

}

cout << "\nEnter Course Name\t";

cin >> coursename;

course << "\nCourseName:" << coursename;

cout << "\nEnter 4 digit Course code No\t";

cin >> coursecode;

while (1)

{

if (coursecode >= 0100 && coursecode <= 9999)

break;

cout << "\nPlease Enter 4 digit course code No\t";

cin >> coursecode;

}

course << "\nCourseCode:" << coursecode;

cout << "\nEnter class from Pre-Nuresury(0) to 10\t";

cin >> Class;

while (1)

{

if (Class >= 0 && Class <= 10)

break;

cout << "\nPlease Enter class from Pre-Nuresury(0) to 10\t";

cin >> Class;

}

course << "\nClass:" << Class;

cout << "\nPlease select Parent Course(English,Urdu,Islamiat,Pakistan Studies,Science\t";

cin >> parentcourse;

course << "\nParentCourse:" << parentcourse <<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

course.close();

}

void veiw\_course()

{

ifstream course2;

course2.open("course.txt", ios::app);

if (!course2)

{

cout << "\nStudent file is not opening\n";

exit(1);

}

while (!course2.eof())

{

string a;

course2 >> a;

cout << a << endl;

}

course2.close();

}

void assign\_course()

{

ofstream tcourse;

tcourse.open("Teacher\_Course.txt", ios::app);

if (!tcourse)

{

cout << "\nCourse file is not opening\n";

}

cout << "\nEnter Teacher Name\t";

cin >> teachername;

tcourse << "\nteacherName:" << teachername;

cout << "\nEnter Course Name\t";

cin >> coursename;

tcourse << "\nCourseName:" << coursename;

cout << "\nEnter 4 digit Course code No\t";

cin >> coursecode;

while (1)

{

if (coursecode >= 0100 && coursecode <= 9999)

break;

cout << "\nPlease Enter 4 digit course code No\t";

cin >> coursecode;

}

tcourse << "\nCourseCode:" << coursecode;

cout << "\nEnter class from Pre-Nuresury(0) to 10\t";

cin >> Class;

while (1)

{

if (Class >= 0 && Class <= 10)

break;

cout << "\nPlease Enter class from Pre-Nuresury(0) to 10\t";

cin >> Class;

}

tcourse << "\nClass:" << Class;

cout << "\nTotal students in a "<<coursename<<" course :";

cin >> registeredstudents;

tcourse << "\nRegisteredstudents:" << registeredstudents << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

tcourse.close();

}

void veiw\_assign\_course()

{

ifstream tcourse1;

tcourse1.open("teacher\_course.txt", ios::app);

if (!tcourse1)

{

cout << "\nStudent file is not opening\n";

exit(1);

}

while (!tcourse1.eof())

{

string a;

tcourse1 >> a;

cout << a << endl;

}

tcourse1.close();

}

};

int main()

{

int n = 0;

char FirstNameT[100];

Addnewcourse course1;

cout << "\n\tPress 1 for Admin module\n";

cout << "\tPress 2 for Student module\n";

cout << "\tPress 3 for Teacher module\n";

cin >> n;

switch (n)

{

case 1:

{

cout << "\n\n\t-------------------WELLCOME TO ADMINISTRATIVE MODULE------------------";

ofstream student, teacher, course;

string username1, username2, username3, password1, password2, password3;

username1 = "teacher\_name";

username2 = "student\_name";

username3 = "course\_name";

password1 = "teacher@123";

password2 = "student@123";

password3 = "course@123";

Addnewteacher teacher1;

Addnewstudent student1;

int number, m = 0;

cout << "\n\n\tPress 1 for teacher \n\tPress 2 for student\n \tPress 3 for course\n";

cin >> number;

switch (number)

{

case 1:

cout << "\nEnter user name \n";

cin >> username3;

cout << "\nEnter password\n";

cin >> password3;

while (1)

{

if (username1 == username3 && password1 == password3)

break;

else

{

cout << "\nIncorect User Name or Password\n";

cout << "\nEnter user name \n";

cin >> username3;

cout << "\nEnter password\n";

cin >> password3;

}

}

while (1)

{

cout << "\n\tPress 1 for add teacher detail\n\tPress 2 for veiw teacher detail";

cout << "\n\tPress 3 for assign course\n\tPress 4 for exit";

cin >> m;

switch (m)

{

case 1:

{

teacher1.setinputteacher();

cout << "\nPress 1 for edit teacher detail : ";

cin >> n;

if (n == 1)

{

teacher1.edit\_teacher\_detail();

}

else

{

cout << "you enter invalid number" << endl;

}

break;

}

case 2:

{

teacher1.veiw\_teacher();

cout << "Detail of Edit teacher are\n";

teacher1.veiw\_editteacher();

break;

}

case 3:

{

course1.assign\_course();

break;

}

case 4:

{

cout << "Exit";

break;

}

default:

{

cout << "\nEnter Valid number";

break;

}

}

break;

}

case 2:

student.open("student.txt", ios::app);

if (!student)

{

cout << "\nStudent file is not opening\n";

}

cout << "\nEnter user name \n";

cin >> username3;

cout << "\nEnter password\n";

cin >> password3;

while (1)

{

if (username2 == username3 && password2 == password3)

break;

else

{

cout << "\nIncorect User Name or Password\n";

cout << "\nEnter user name \n";

cin >> username3;

cout << "\nEnter password\n";

cin >> password3;

}

}

while (1)

{

cout << "\n\tPress 1 for Add New student";

cout << "\n\tPress 2 for Veiw All student\n\tPress 3 for Update student Marks detail";

cout << "\n\tPress 4 for Veiw student marks\n\tPress 5 for update fee";

cout << "\n\tPress 6 for veiw fee status\n\tPress 7 for exit\n";

cin >> m;

switch (m)

{

case 1:

{

student1.setinputstudent();

cout << "Press 1 for edit student detail : ";

cin >> n;

if (n == 1)

{

student1.edit\_student\_detail();

}

else

{

cout << "you enter invalid number" << endl;

}

break;

}

case 2:

{

student1.getinputstudent();

cout << "Detail of Edit students are\n";

student1.veiwedit\_student();

break;

}

case 3:

{

student1.update\_student\_marks();

break;

}

case 4:

{

student1.veiwstudentmarks();

break;

}

case 5:

{

student1.feestatus();

break;

}

case 6:

{

student1.veiwfeestatus();

break;

}

case 7:

{

cout << "Exit ";

break;

}

default:

{

cout << "\nEnter Valid number";

break;

}

}

}

case 3:

{

course.open("student.txt", ios::app);

if (!course)

{

cout << "\nStudent file is not opening\n";

}

cout << "\nEnter user name \n";

cin >> username3;

cout << "\nEnter password\n";

cin >> password3;

while (1)

{

if (username3 == username3 && password3 == password3)

break;

else

{

cout << "\nIncorect User Name or Password\n";

cout << "\nEnter user name \n";

cin >> username3;

cout << "\nEnter password\n";

cin >> password3;

}

}

while (1)

{

cout << "\n\tPress 1 for Add New course";

cout << "\n\tPress 2 for Veiw All course";

cout << "\n\tPress 3 for exit";

cin >> m;

switch (m)

{

case 1:

{

course1.setinputcourse();

break;

}

case 2:

{

course1.veiw\_course();

break;

}

case 3:

{

cout << "Exit ";

break;

}

default:

{

cout << "\nEnter Valid number";

break;

}

}

}

}

break;

}

student.close();

teacher.close();

course.close();

}

case 2:

{

cout << "\t-------------------WELCOME TO TEACHER MODULE--------------------\n";

course1.veiw\_assign\_course();

break;

}

default:

{

cout << "You enter invalid number";

break;

}

}

system("pause");

return 0;

}