Code:

#include<iostream>

#include<fstream>

#include<stdlib.h>

#include <conio.h>

using namespace std;

struct attendance{

float present=0,total=0,w;

int enter();

void calculate();

}Attend;

int attendance:: enter()//update the attendance

{

string name;

int id;

int totalstudents;

int date,month,year;

int key,totalperiods,k,a,count;

int z[20];

cout<<">>ENTER THE TOTAL NO OF STUDENTS..."<<endl;

cin>>totalstudents;

cout<<">>ENTER ANY KEY TO GIVE THE DATE... "<<endl;

cin>>key;

while(key)

{

for(int i=0;i<totalstudents;i++){

cout<<">>ENTER YOUR ID...";

cin>>id;

cout<<">>ENTER YOUR NAME...";

cin>>name;

cout<<"->Enter DATE/MONTH/YEAR: ";

cin>>date>>month>>year;

cout<<endl;

if(month== 1||month==3||month==5||month==7||month==8||month==10||month==12) //Months with 31 days

{

if(date>31||date==0)

{

count=0;

}

else

{

count=1;

}

}

if(month== 4||month==6||month==9||month==11) //Months with 30 days

{

if(date>30 ||date==0)

{

count=0;

}

else

{

count=1;

}

}

if(month==2) //February

{

if(date>29||date==0)

{

count=0;

}

else

{

count=1;

}

}

if(month>12)

{

count=0;

}

if(month==0||year==0)

{

count=0;

}

switch(count)//gives if the given date is correct or not and update

{

case 0:

cout<<"Please enter::VALID DATE::"<<endl<<endl;

break;

case 1:

cout<<">>ENTER NUMBER OF classes IN THE DAY...(max periods=7): ";

cin>>totalperiods;

cout<<endl;

for(k=1;k<totalperiods+1;k++)

{

cout<<"->ENTER '1' IF PRESENT ELSE '0' TO UPDATE THE STATUS OF PERIOD "<<k<<" :";

cin>>a;

if(a==1)

{

Attend. present++;

Attend. total++;

z[k]=1;

cout<<" ......................................................................"<<endl<<endl;

cout<<" :::UPDATED AS PRESENT:::"<<endl<<endl;

cout<<" ......................................................................"<<endl<<endl;

}

else

{

Attend.total++;

z[k]=0;

cout<<" ......................................................................"<<endl<<endl;

cout<<" :::UPDATED AS ABSENT:::"<<endl<<endl;

cout<<" ......................................................................"<<endl<<endl;

}

}

cout<<endl;

cout<<" ::::::ATTENDANCE OF THE DAY IS UPDATED AS:::::"<<endl;

for(k=1;k<totalperiods+1;k++)

{

cout<<"\_\_\_\_\_\_\_\_\_\_";

}

cout<<endl<<endl;

cout<<"ID Name DD/MM/YY ";

for(k=1;k<totalperiods+1;k++)

{

cout<<"p "<<k<<" ";

}

cout<<endl<<endl;

cout<<id<<" "<<name<<" "<<date<<"/"<<month<<"/"<<year<<" "; //DD/MM/YY format

for(k=1;k<totalperiods+1;k++)

{

if(z[k]==1)

{

cout<<" P"<<" "; //Present

}

else

{

cout<<" A"<<" "; //Absent

}

}

cout<<endl<<endl;

for(k=1;k<totalperiods+1;k++)

{

cout<<"\_\_\_\_\_\_\_\_\_\_";

}

cout<<endl;

cout<<endl;

}

cout<<">>ENTER 1 TO TO UPDATE ANOTHER DAY ELSE 0 :";

cin>>key;

cout<<endl;

}

}

}

void attendance::calculate()//calculate the percentage

{

int x,r;

float s;

x=(Attend.total\*75)/100;

s=(Attend.present\*100)/Attend.total;

if(s<75&&s>65)

{

cout<<" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl<<endl;

cout<<" Student ATTENDANCE IS LOW : "<<s<<"%"<<endl<<endl;

r=x-Attend.present;

cout<<" ........................................................................."<<endl<<endl;

cout<<" student must have attended "<<r<<" classes "<<endl<<endl;

cout<<" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl<<endl;

}

if(s<65)

{

int y;

y=(Attend.total\*65)/100;

int k=y-Attend.present;

cout<<" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl<<endl;

cout<<" Student ATTENDANCE IS : "<<s<<"%"<<endl<<endl;

cout<<" .........................................................................."<<endl<<endl;

cout<<" Student must have attended"<<k<<"classes "<<endl;

cout<<" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl<<endl;

}

if(s>75)

{

cout<<" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl<<endl;

cout<<" ATTENDANCE IS :"<<s<<"%"<<endl<<endl;

cout<<" .........................................................................."<<endl<<endl;

cout<<" \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl<<endl;

}

// }

}

void admin(){

// string username;

// string password;

char c = ' ';

string pass = "";

const string username = "admin";

const string password = "karachi911";

string name;

cout << "\t\t\t\t\t===============================\n";

cout << "\t\t\t\t\t Admin \n";

cout << "\t\t\t\t\t===============================\n";

F:

cout << "\n\n\t\t\t\t\tEnter Username: ";

cin >> name;

cout << "\t\t\t\t\tEnter Password : ";

//cin>>pass;

while (c != 13)

{

c = getch ();

if (c != 13)

{

pass += c;

cout << "\*";

}

}

system("pause");

}

int main()

{

int choice,w;

ifstream file1;

ofstream file2;

cout<<endl;

cout<<" STUDENT ATTENDANCE MAINTAINANCE SYSTEM "<<endl;

cout<<" ------------------------------------------ "<<endl<<endl;

cout<<"::::::::::::::::::: ENTER ANY KEY TO SELECT OPTIONS :::::::::::::::::::"<<endl;

cin>>choice;

cout<<endl;

while(choice)

{

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* OPTIONS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl<<endl;//printing options

cout<<" 1.VIEW ATTENDANCE"<<endl<<endl<<" 2.UPDATE ATTENDANCE"<<endl<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cin>>w;

switch(w)//perform options

{

case 1:

admin();

system("cls");

file1.open("attendance1.txt");

file1.read((char \*)& Attend, sizeof(Attend));

Attend.calculate();

file1.close();

break;

case 2:

file1.open("attendance1.txt",ios\_base::app);

file1.read((char \*)& Attend, sizeof(Attend));

file1.close();

Attend.enter();

file2.open("attendance1.txt",ios\_base::app);

file2.write((char \*)& Attend, sizeof(Attend));

file2.close();

break;

}

cout<<">>ENTER 1 TO CONTINUE ELSE 0"<<endl;

cin>>choice;

}

return 0;

}