CODE:

#include<fstream>

#include<string.h>

#include<iostream>

#include<windows.h>

using namespace std;

int check(char a[],char b[]);

inline void SetColor(WORD color)

{

SetConsoleTextAttribute(GetStdHandle(STD\_OUTPUT\_HANDLE),color);

}

class color

{

public:

color(WORD val) : m\_val(val){}

void set() const{

SetColor(m\_val);

}

private:WORD m\_val;

};

static const color cyan(3);

static const color green(2);

static const color brightcyan(3);

static const color red(4);

static const color purple(5);

static const color darkyellow(6);

static const color pink(13);

static const color gray(8);

static const color yellow(14);

static const color brightred(12);

static const color white(7);

inline std::ostream& operator<<(std::ostream& os,const color&c)

{

c.set();

return os;

}

class data

{

char name[30];

int playercode;

int M1R;

int M2R;

int M3R;

int total\_run;

int total;

public:data()

{

}

int get\_playercode()

{

return playercode;

}

int get\_totalruns()

{

return total\_run;

}

char \* get\_name()

{

return name;

}

void add\_player();

void show\_player();

data total\_runs();

void modify\_data();

void write\_player\_data();

void insert();

void display();

void search();

void modify();

void delete\_record();

friend ostream& operator<<(ostream&,data);

};

fstream file;

fstream file1;

data d;

void data:: add\_player()

{

cout<<darkyellow<<color(6)<<endl;

cout<<"\nEnter player code(Integral) : ";

cin>>playercode;

cout<<"\nEnter player name : ";

cin>>name;

//gets(name);

cout<<"\nTest match run(s) : ";

cin>>M1R;

cout<<"\nOne day internationals match run(s) : ";

cin>>M2R;

cout<<"\nTwenty twenty match run(s) : ";

cin>>M3R;

total\_runs();

}

void data::show\_player() //TO DISPLAY THE RECORDS EXISTING IN THE FILE

{

// cout<<"\n\n\n\n TO DISPLAY THE RECORDS EXISTING IN THE FILE\n\n\n";

cout<<cyan<<color(3)<<endl;

cout<<"\n\nPlayer code :"<<playercode;

cout<<"\n\nPlayer name : "<<name;

cout<<"\n\nTest match run(s) : "<<M1R;

cout<<"\n\nOne day internationals match run(s) : "<<M2R;

cout<<"\n\nTwenty twenty match run(s) : "<<M3R;

cout<<"\n\nTotal run(s) : "<<total\_run;

}

data data::total\_runs() //CALCULATE TOTAL RUNS

{

cout<<purple<<color(5)<<endl;

total\_run=M1R+M2R+M3R;

return \*this;

}

void data:: modify\_data() //TAKE DATA TO MODIFIFY EXISTING RECORD

{

cout<<pink<<color(13)<<endl;

cout<<"\n\n\n\tEnter new data for modification :::::::: ";

cout<<"\n\n\n\tEnter First match run(s) :\n\n\t ";

cin>>M1R;

cout<<"\n\n\n\tEnter Second match run(s) :\n\n\t ";

cin>>M2R;

cout<<"\n\n\n\tEnter Third match run(s) :\n\n\t ";

cin>>M3R;

d=total\_runs();

}

//cout<<"\n ========================= CALCULATE HIGHEST RUN(s) ===================================\n";

void data:: write\_player\_data()

{

cout<<white<<color(7)<<endl;

file.open("record.dat",ios::in|ios::binary);

int post=0,tr=0,plr\_code=0,run=0;

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

while(file)

{

run=d.get\_totalruns();

if(run>tr)

{

post=file.tellg();

tr=run;

}

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

}

file.close();

file.open("record.dat",ios::in|ios::binary);

file.seekg(post-sizeof(d));

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

cout<<"\n::::::::::Highest run getter data::::::::::";

cout<<"\n\n\nHighest run(s) getter code : "<<d.get\_playercode();

cout<<"\n\n\nHighest run getter player is : "<<d.get\_name();

cout<<"\n\n\nPlayer total run(s) are : "<<tr;

float avg;

avg=(tr/3);

cout<<"\n Player average is : "<<avg;

file.close();

}

//cout<<"\n &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& INSERT NEW RECORD(s) &&&&&&&&&&&&&&&&&&&&&&&&&&&&&\n";

void data:: insert()

{

cout<<red<<color(4)<<endl;

int i,no;

file.open("record.dat",ios::in|ios::app|ios::binary);

cout<<"\n ::Entry of new record(s):: ";

cout<<"\nHow many record(s) you want to enter : ";

cin>>no;

for(i=1;i<=no;i++)

{

d.add\_player(); //insert records

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

}

file.close();

}

//DISPLAY EXISTING RECORD(s)

void data:: display()

{

cout<<gray<<color(8)<<endl;

file.open("record.dat",ios::in);

cout<<"\n|||||||||||||||||||||| Entered record(s) ||||||||||||||||||||||||";

while(file.read((char\*)&d,sizeof(data)))

{

d.show\_player();

}

file.close();

}

//\* \* \* \* \* \* \* \* \* \* \* \* \* SEARCH RECORD \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

void data:: search()

{

cout<<brightcyan<<color(11)<<endl;

int p,r,srch=0;

file.open("record.dat",ios::in|ios::binary);

cout<<"\nEnter the player code to see his records : ";

cin>>r;

file.seekg(0);

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

while(file)

{

p=d.get\_playercode();

if(r==p)

{

d.show\_player();

srch=1;

break;

}

else

{

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

}

}

file.close();

if(srch==0)

{

cout<<"\nThere is no record which have this playercode .";

}

}

//cout<<"\n ????????????????????????????? MODIFY DATA ???????????????????????????????\n";

void data:: modify()

{

cout<<brightred<<color(12)<<endl;

int posi=0,got=0,dmd=0;

cout<<"\nEnter the playercode whose record to be modified : ";

cin>>dmd;

int ifdata=1;

file.open("record.dat",ios::in|ios::out|ios::binary);

posi=file.tellg();

while(file)

{

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

got=d.get\_playercode();

if(dmd==got)

{

file.seekg(posi);

d.modify\_data();

ifdata=2;

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

break;

}

posi=file.tellg();

}

file.close();

if(ifdata==1)

{

cout<<"\n Data not available for modification ";

}

}

//cout<<"\n\n\n\t\t !!!!!!!!!!!!!!!!!! DELETE RECORD !!!!!!!!!!!!!!!!!!!!!!!!!\t\t\n\n\n";

ostream& operator<<(ostream& print,data d1)

{

cout<<yellow<<color(14)<<endl;

print<<"\n\n\n\n\t\t\t\t\t\ttotal\_run="<<d1.total<<endl;

return print;

}

void data:: delete\_record()

{

cout<<green<<color(2)<<endl;

int pointer=0,remove\_record=0,size=0,code\_get=0;

// size=sizeof(file);

cout<<"\n Enter the player code whose record to be deleted : ";

cin>>remove\_record;

file.open("record.dat",ios::in|ios::out);

fstream fp2;

fp2.open("tempo.dat",ios::out);

file.seekg(0,ios::beg);

while(file.read((char\*)&d,sizeof(data)))

{

code\_get=d.get\_playercode();

if(remove\_record!=code\_get)

{

fp2.write((char\*)&d,sizeof(data));

}

}

file.close();

fp2.close();

remove("record.dat");

rename("tempo.dat","record.dat");

cout<<"\n\n\n\n\t\t Record deleted \t\t\n\n\n";

}

//\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

main()

{

int choice;

char ans='n';

do

{

cout<<"\n\n\t\t@@@@@@@@@@@@@@@@@@@@@@\*\*\*\*\*\*\*\*\*\*\*------->CRICKET RECORD KEEPING PROJECT<-------\*\*\*\*\*\*\*\*\*\*\*\*@@@@@@@@@@@@@@@@@@@@@@@\n\n";

cout<<"\n\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~MADE BY :kubra fathima Pinki Rekha Myali~~~~~~~~~~~~\n\n";

cout<<"\n\n\t\t~~~~~~~~~~~COLLEGE: NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~\n\n";

cout<<"\n\n\n\t\t 1.INSERT RECORD";

cout<<"\n\n\t\t 2.DISPLAY RCEORD";

cout<<"\n\n\t\t 3.SEARCH RECORD";

cout<<"\n\n\t\t 4.MODIFY RECORD";

cout<<"\n\n\t\t 5.HIGHEST RUNS";

cout<<"\n\n\t\t 6.DELETE PREVIOUS ENTERED RECORD";

cout<<"\n\n\t\t 7.EXIT ";

cout<<"\n\n\t\t\tEnter any one of the options : ";

cin>>choice;

switch(choice)

{

case 1: d.insert();

break;

case 2:d. display();

break;

case 3:d. search();

break;

case 4:d. modify();

break;

case 5:d. write\_player\_data();

break;

case 6:d. delete\_record();

break;

case 7: exit(0);

break;

default: cout<<"\n Enter choice between 1 to 6 ";

}

cout<<"\n Do you want to choose any other option ? :(y/n): ";

cin>>ans;

}while(ans=='y'||ans=='Y');

}