/\* Wap in C++ to read file **“sports.dat”** and copy only those records where event name is **ATHLETIC** using the concept of **Data file handling** \*/

#include<fstream.h>

#include<string.h>

#include<conio.h>

#include<stdio.h>

#include<stdlib.h>

struct sports {

char event[20];

char participants[10][30];

int no\_of\_participants;

} s[20], s2[20];

void copy(fstream &ob);

int i=0;

void main()

{

clrscr();

char choice;

fstream ob("sports.dat",ios::binary|ios::in|ios::out);

do

{

if(i>0)

cin.get();

cout<<"\n\nEnter the name of Event : ";

cin.getline(s[i].event,20);

cout<<"\n\nEnter the total number of participants in Event "<<s[i].event<<" : ";

cin>>s[i].no\_of\_participants;

cout<<"\n\nEnter the name of Praticipants : \n";

cin.get();

for(int j=0; j<s[i].no\_of\_participants; j++)

cin.getline(s[i].participants[j],30);

ob.write((char\*)&s[i], sizeof(sports));

cout<<"\n\n\nWant to Enter Details of Another Event (Y/N) : ";

cin>>choice;

i++;

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

cout<<"\n\n\n\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n";

copy(ob);

cout<<"\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n\n";

getch();

}

void copy(fstream &o)

{

sports s[20];

o.seekg(0);

ofstream file;

file.open("athletic.dat",ios::binary);

file.seekp(0);

int j,n=0;

int c=0;

while(o)

{

o.read((char\*)&s[c], sizeof(sports));

if(strcmp("athletic",s[c].event)==0)

{

file.write((char\*)&s[c], sizeof(sports));

n=1;

break;

}

c++;

}

if(n==0)

{

cout<<"\n\nUnsuccessful Search.";

getch();

exit(0);

}

o.close();

file.close();

sports sp;

ifstream oo;

oo.open("athletic.dat",ios::binary);

while(oo)

{

oo.read((char\*)&sp, sizeof(sports));

}

cout<<"\n\nThe Records of file are : \n\n";

cout<<"\n\nEvent = "<<sp.event;

cout<<"\n\n\n\nThe Participants are : \n\n";

for(int i=0; i<sp.no\_of\_participants; i++)

{

cout<<sp.participants[i]<<"\n\n";

}

oo.close();

remove("athletic.dat");

remove("sports.dat");

}

**Output :**

Enter the name of Event : Cricket

Enter the total number of participants in Event Cricket : 3

Enter the name of Praticipants :

Rahul verma

Shivam

Siddharth

Want to Enter Details of Another Event (Y/N) : y

Enter the name of Event : athleltic

Enter the total number of participants in Event atlhletic : 2

Enter the name of Praticipants :

Mohak

Vikas

Want to Enter Details of Another Event (Y/N) : y

Enter the name of Event : Football

Enter the total number of participants in Event Football : 2

Enter the name of Praticipants :

Arsh

Ashu

Want to Enter Details of Another Event (Y/N) : n

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The Records of file are :

Event = athletic

The Participants are :

Mohak

Vikas

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