**Name: APURV WAGHMARE**

**Roll no: COB249**

**Code :**

#include <iostream>

#include <fstream>

#include <cstring>

using namespace std;

class Emp

{

  int empid;

char name[20];

char design[20];

float salary;

   public:

Emp()

{

empid=0;

strcpy(name,"");

strcpy(design,"");

salary=0.0;

}

int acceptempid()

{

return(empid);

}

void getdata()

{

cout<<"\nEnter Emp details:";

cout<<"\nEnter emp id:";

cin>>empid;

cout<<"Enter emp name : ";

cin>>name;

cout<<"Enter Designation : ";

cin>>design;

cout<<"Enter salary: ";

cin>>salary;

}

void display()

{

cout<<"\n Emp Details";

cout<<"\n Emp id = "<<empid;

cout<<"\n Emp Name = "<<name;

cout<<"\n Designation = "<<design;

cout<<"\n Salary = "<<salary;

}

};

class fileop

{

ifstream fin;

ofstream fout;

fstream fs;

public:

void insert();

void show();

void search(int);

int deleterecord(int);

int append(int);

};

void fileop::insert()

{

Emp obj;

obj.getdata();

fout.open("data.txt",ios::ate|ios::app);

fout.write((char\*)&obj,sizeof(obj));

fout.close();

}

void fileop::show()

{

Emp obj;

fin.open("data.txt");

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

while(fin.read((char\*)&obj,sizeof(obj)))

{

obj.display();

}

fin.close();

}

void fileop::search(int rno)

{

Emp obj;

int flag=0;

fin.open("data.txt");

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

while(fin.read((char\*)&obj,sizeof(obj)))

{

if(obj. acceptempid()==rno)

{

flag=1;

break;

}

}

fin.close();

if(flag==1)

{

cout<<"\n Emp found";

obj.display();

}

else

{

cout<<"\n Emp not found";

}

}

int fileop::deleterecord(int rno)

{

Emp obj;

int flag=0;

fin.open("data.txt");

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

while(fin.read((char\*)&obj,sizeof(obj)))

{

if(obj. acceptempid()==rno)

{

flag=1;

}

else

{

fout.write((char\*)&obj,sizeof(obj));

}

}

fin.close();

fout.close();

remove("data.txt");

rename("temp.txt","data.txt");

return(flag);

 }

 int fileop::append(int rno)

{

Emp obj;

int flag=0;

fs.open("data.txt");

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

while(fs.read((char\*)&obj,sizeof(obj)))

{

if(obj. acceptempid()==rno)

{

flag=1;

cout<<"\n Enter new details: ";

obj.getdata();

fs.seekp((int)fs.tellg()-sizeof(obj),ios::beg);

fs.write((char\*)&obj,sizeof(obj));

}

}

fs.close();

return(flag);

}

int main()

{

   fileop fobj;

    char ch='y';

    int choice,key, n;

    do{

        cout<<"\n Main Menu";

        cout<<"\n 1. Create";

        cout<<"\n 2. Display";

        cout<<"\n 3. Search";

        cout<<"\n 4. Delete";

        cout<<"\n 5. Append";

        cout<<"\n 6. Exit";

        cout<<"\n Enter your choice:";

        cin>>choice;

        switch(choice)

        {

            case 1: fobj.insert();

            break;

            case 2: fobj.show();

            break;

            case 3:

             cout<<"\n Enter emp id to search : ";

              cin>>n;

              fobj.search(n);

            break;

            case 4:

              cout<<"\n Enter emp id to delete : ";

              cin>>n;

              fobj.deleterecord(n);

            break;

            case 5:

               cout<<"\n Enter emp id to edit : ";

              cin>>n;

              fobj.append(n);

            break;

            case 6: exit(0);

        }

    cout<<"\n Do you want to continue:";

    cin>>ch;

            }while(ch=='y');

    return 0;

}

**Output:**

Main Menu

1. Create

2. Display

3. Search

4. Delete

5. Append

6. Exit

Enter your choice:1

Enter Emp details:

Enter emp id:1

Enter emp name : sidd

Enter Designation : a

Enter salary: 99999

Do you want to continue:y

Main Menu

1. Create

2. Display

3. Search

4. Delete

5. Append

6. Exit

Enter your choice:2

Emp Details

Emp id = 1

Emp Name = sidd

Designation = a

Salary = 99999

Do you want to continue:y

Main Menu

1. Create

2. Display

3. Search

4. Delete

5. Append

6. Exit

Enter your choice:3

Enter emp id to search : 1

Emp found

Emp Details

Emp id = 1

Emp Name = sidd

Designation = a

Salary = 99999

Do you want to continue:y

Main Menu

1. Create

2. Display

3. Search

4. Delete

5. Append

6. Exit

Enter your choice:4

Enter emp id to delete : 1

Do you want to continue:y

Main Menu

1. Create

2. Display

3. Search

4. Delete

5. Append

6. Exit

Enter your choice:5

Enter emp id to edit : 1

Do you want to continue:y

Main Menu

1. Create

2. Display

3. Search

4. Delete

5. Append

6. Exit

Enter your choice:6