**Assignment-12**

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#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;

}

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

cin>>ch;

}while(ch=='y');

return 0;

}

OUTPUT :

