

## ASSIGNMENT NO.-12

### **Title:**

Company maintains employee information as employee ID, name, designation and salary. Allow user to add, delete information of employee. Display information of particular employee. If employee does not exist an appropriate message is displayed. If it is, then the system displays the employee details. Use index sequential file to maintain the data.

```
#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;
```

```
}
```

The screenshot displays the Programiz Online C++ Compiler interface. The browser address bar shows the URL <https://www.programiz.com/cpp-programming/online-compiler/>. The interface includes a header with the Programiz logo, navigation links for Premium Coding Courses, and a 'Programiz PRO' button. The main workspace is divided into three sections: a file explorer on the left showing 'main.cpp', a code editor in the center, and an output console on the right. The code editor contains a C++ program with line numbers 164 to 189. The output console shows the program's execution, including a main menu, user input for employee details, and a choice to continue. The Windows taskbar at the bottom shows the system clock as 23:20 on 20-04-2025.

```
164      break;
165      case 2: fobj.show();
166      break;
167      case 3:
168          cout<<"\n Enter emp id to search : ";
169          cin>>n;
170          fobj.search(n);
171      break;
172      case 4:
173          cout<<"\n Enter emp id to delete : ";
174          cin>>n;
175          fobj.deleterecord(n);
176      break;
177      case 5:
178          cout<<"\n Enter emp id to edit : ";
179          cin>>n;
180          fobj.append(n);
181      break;
182      case 6: exit(0);
183  }
184  cout<<"\n Do you want to continue:";
185  cin>>ch;
186  }while(ch=='y');
187  return 0;
188  }
189  }
```

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:2345
Enter emp name : shradha
Enter Designation : pune
Enter salary: 345677

Do you want to continue:y

Main Menu
1. Create
2. Display
3. Search
4. Delete
5. Append
6. Exit
Enter your choice:2
```