Assignment No. 12

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Programme:

```
#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)
```

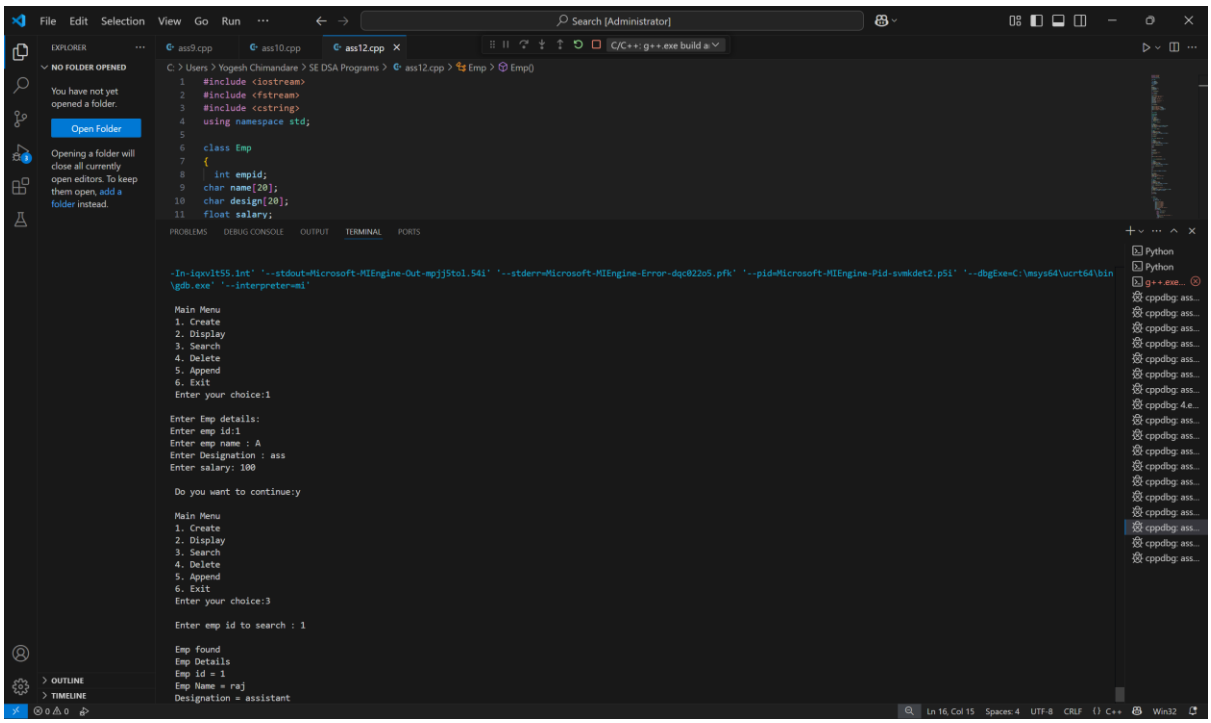
```
{
Emp obj;
int flag=0;
fs.open("data.txt");
fs.seekg(0,ios::beg);
while(fs.read((char*)&obj,sizeof(obj)))
{
if(obj. acceptempid()==rno)
{
flag=1;
cout<<"\n Enter new details: ";
obj.getdata();
fs.seekp((int)fs.tellg()-sizeof(obj),ios::beg);
fs.write((char*)&obj,sizeof(obj));
}
}
fs.close();
return(flag);
}



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:


File Edit Selection View Go Run
Search [Administrator]
ass9.cpp
ass10.cpp
ass12.cpp
EXPLORER
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
Opening a folder will close all currently open editors. To keep them open, add a folder instead.
C: > Users > Yogesh Chimandare > SE DSA Programs > ass12.cpp > Emp > Emp()
#include <iostream>
#include <fstream>
#include <cstring>
using namespace std;
class Emp
{
int empid;
char name[20];
char design[20];
float salary;
PROBLEMS DEBUG CONSOLE OUTPUT TERMINAL PORTS
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 : A
Enter Designation : ass
Enter salary: 100
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 = raj
Designation = assistant
OUTLINE
TIMELINE