

**Rollnumber: 19011519-147**

**Midterm paper**

**Submitted to DR. Noman Riaz Chaudry**

**ooDiagram**

**Staff member**

employee\_id;

cnic;

gender;

name;

address;

designation;

contact\_no;

Add()

Print()

Read()

Getid()
---------

## **HOD->public staffmember**

*object; count;
Del() Print_id() Update() Addnew() Print()

## **Code:**

```
#include<iostream>
```

```
#include<fstream>
```

```
#include<string>
```

```
using namespace std;
```

```
class staffmember
```

```
{
```

```
    int employee_id;
```

```
    string cnic;
```

```
    string gender;
```

```
    string name;
```

```
    string address;
```

```
    string designation;
```

```
    string contect_no;
```

```
public:
```

```
    static fstream data;
```

```
    staffmember()
```

```
{
```

```
        cnic=gender=name=address=designation=contect_no="";
```

```
        employee_id=0;
```

```
}
```

```
    void add()
```

```
{
```

```

cout<<"Enter details\n";
    cout<<"enter name";cin>>name;
    cout<<"enter cnic";cin>>cnic;
    cout<<"enter designation";cin>>designation;
    cout<<"enter employee ID";cin>>employee_id;
    cout<<"enter address";cin>>address;
    cout<<"enter gender";cin>>gender;
}
void read()
{
data>>employee_id;
getline(data,cnic);
getline(data,gender);
getline(data,name);
getline(data,address);
getline(data,designation);
getline(data,contact_no);
}
void print()
{
cout<<"\nRecord"<<".....\n";
cout<<"\nemployee_id:"<<employee_id;

```

```

        cout<<"\ncinc:"<<cnic;
        cout<<"\ngender:"<<gender;
        cout<<"\nname:"<<name;
        cout<<"\naddress:"<<address;
        cout<<"\ndesigantion:"<<designation;
        cout<<"\ncontact_no"<<contact_no;
    }

    int getid()
    {
        return employee_id;
    }

};

fstream staffmember::data("data.txt",ios::in);

class hod: public staffmember
{
    staffmember *object;
    int count;
public:
    hod(staffmember temp)

```

```

{
    temp.data>>count;
    object= new staffmember[count];
    for(int i=0;i<count;i++)
        object[i].read();
}

void del()
{
    int temp_id;
    cout<<"Enter Employee_id:";
    cin>>temp_id;
    for(int i=0;i<count;i++)
    {
        if(temp_id==object[i].getid())
        {
            temp_id=i;
            break;
        }
    }
    delete object[temp_id];
    for(int j=temp_id;j<count;j++)
    {
        object[j]=object[j+1];
    }
}

```

```

        }
    }

void print()
{
    int n=0;
    while(n!=count)
    {
        object[n].print();
        cout<<endl;
        n++;
    }
}

void print_id()
{
    int temp_id;
    cout<<"Enter Employee_id:";
    cin>>temp_id;
    for(int i=0;i<count;i++)
    {
        if(temp_id==object[i].getid())
        {

```

```

        object[i].print();
        break;
    }
}

void update()
{
    int temp_id;
    cout<<"Enter Employee_id:";
    cin>>temp_id;
    for(int i=0;i<count;i++)
    {
        if(temp_id==object[i].getid())
        {
            object[i].add();
            break;
        }
    }

}

void addnew(staffmember obj)
{

```



```

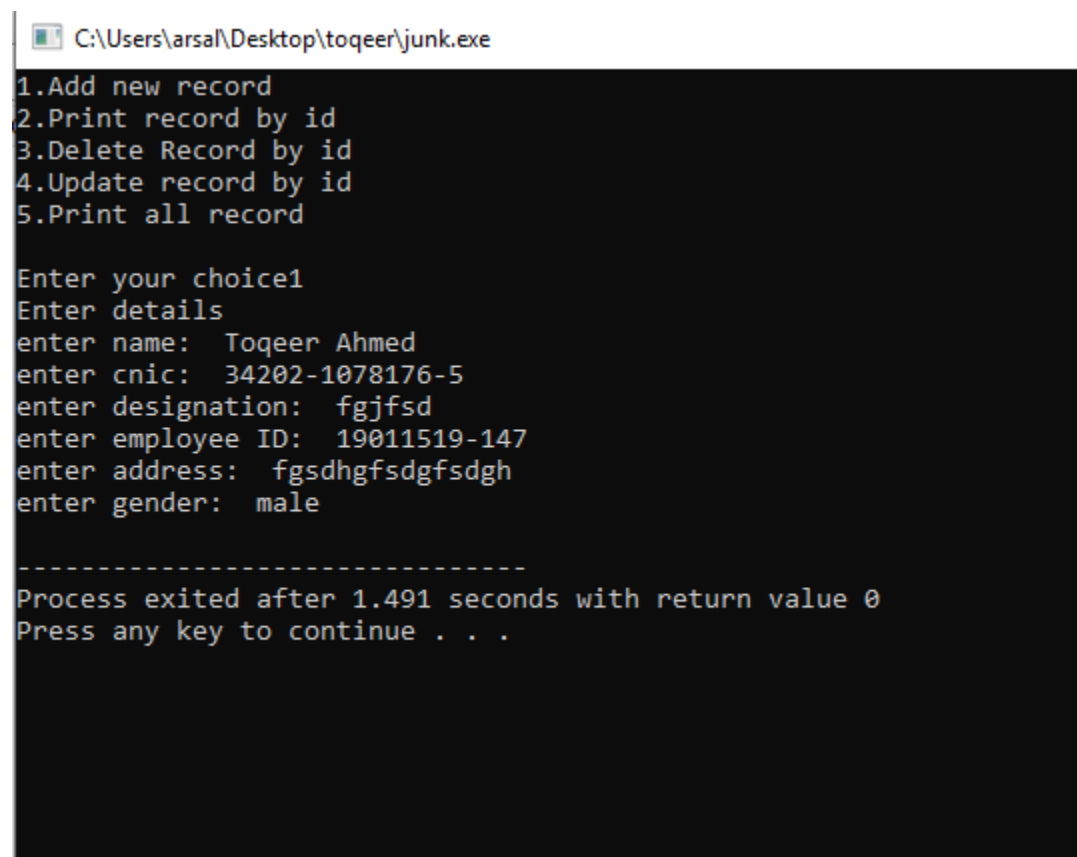
        obj.add();
    }
};

main()
{
    staffmember obj;
    hod object(obj);
    int n;
    cout<<"1.Add new record\n";
    cout<<"2.Print record by id\n";
    cout<<"3.Delete Record by id\n";
    cout<<"4.Update record by id\n";
    cout<<"5.Print all record\n\n";
    cout<<"Enter your choice";
    cin>>n;
    switch(n)
    {
        case 1:
            object.object.addnew();
        case 2:
            object.object.print_id();

```

```
        case 3:
            object.object.del();
        case 4:
            object.object.update();
        case 5:
            object.object.print();
    }
}
```

## output



```
C:\Users\arsal\Desktop\toqeer\junk.exe
1.Add new record
2.Print record by id
3.Delete Record by id
4.Update record by id
5.Print all record

Enter your choice1
Enter details
enter name: Toqeer Ahmed
enter cnic: 34202-1078176-5
enter designation: fgjfsd
enter employee ID: 19011519-147
enter address: fgsdhgfsdgsdgh
enter gender: male

-----
Process exited after 1.491 seconds with return value 0
Press any key to continue . . .
```

