```cpp
class login_interface
{
        char *line;//Using Dynamic Memory Management to calculate size of the line of the
file for storing line it in array
        char id[20];
        char pass[20];
        char ch;
        char name[20];
        char age[10];
        int i,k,c,flag;

public:

void employee(char ID[],char PASS[])
{
        item obj;
        i=0;
        k=0;
        c=0;
        flag=0;
        ifstream ifs("employeecredentials.csv");
        line=new char[sizeof(ifs)];
        ifs>>line;
    while(!ifs.eof())
      {
      i=0;
      for(;line[i]!=',';i++)
        id[k++]=line[i];
      id[k]='\0';
      i++;
      k=0;
      for(;line[i]!='*';i++)
        pass[k++]=line[i];
      pass[k]='\0';
      i++;
      k=0;
      if(strcmp(ID,id)==0&&strcmp(pass,PASS)==0)
      {
          flag=1;
          break;
      }
      delete []line;
      line=new char[sizeof(ifs)];
      ifs>>line;
      }
      ifs.close();
      if(flag==1)
      {
          while(1)
          {
          system("cls");
          cout<<
"_____
_____"<<endl;
          cout<<"                                                  LOGIN
SUCCESSFUL                                                      "<<endl;
          cout<<
"_____
_____"<<endl;
          cout<<"
WELCOME,EMPLOYEE                                                               "<<endl;
          cout<<"\n\n                                                     1.TO START
BILLING                                                   "<<endl;
          cout<<"                                                    2.TO DISPLAY THE
ITEMS                                               "<<endl;
          cout<<"
3.EXIT                                                                "<<endl;
          cout<<"\n\nINPUT: ";
          cin>>ch;
          system("cls");
```

```cpp
            switch(ch)
            {
        case '1':
            {
             system("cls");
             bill ob1;
             ob1.billdetails();
             cout<<"\nPress Any Key to Return...";
             getch();
             break;
            }
        case '2':
            {
            obj.displayitem();
            gotoxy(5,15);
            cout<<"\n\n\n Enter any key to return .... ";
            getch();
             break;
            }
        case '3':
            exit(0);
            break;
        default: cout<<" Wrong Input !!!!!";
             }
          }
        }
        else
        {
            system("cls");
            cout<<
"_____
_____"<<endl;
            cout<<"                                                        LOGIN
FAILED                                                      "<<endl;
            cout<<
"_____
_____"<<endl;
            cout<<"\n\n                                       ENTER ID:";
            cout<<"\n\n                                       PASSWORD:";
            gotoxy(60,5);
            cin>>ID;
            gotoxy(60,7);
            cin>>PASS;
            employee(ID,PASS);
        }
}
void credentials()
    {
    ofstream ofs1("employees.csv",ios::out|ios::app);
    ofstream ofs2("employeecredentials.csv",ios::out|ios::app);
    do{
    cout<<"\t\t\t\t\tEnter Name: ";
    cin>>name;
    cout<<"\n\t\t\t\t\tEnter Age: ";
    cin>>age;
    cout<<"\n\t\t\t\t\tLogin ID: ";
    cin>>id;
    cout<<"\n\t\t\t\t\tPassword: ";
    cin>>pass;
    ofs1<<name<<","<<age<<","<<id<<","<<pass<<"*"<<endl;
    ofs2<<id<<","<<pass<<"*"<<endl;
    cout<<"\n's' TO SAVE"<<endl;
    ch=getch();
    }while(ch!='s');
    cout<<"\n Press any key to return ..... ";
    getch();
    }
void admin(char ID[],char PASS[])
    {
    item ob;
```

```cpp
    cart ob1;
    bill obj2;
      i=0;
      k=0;
      c=0;
      ifstream ifs("admin.csv");
      line=new char[sizeof(ifs)];
      ifs>>line;
      while(!ifs.eof())
      {
      for(;line[i]!=',';i++)
          id[k++]=line[i];
      id[k]='\0';
      i++;
      k=0;
      for(;line[i]!='*';i++)
          pass[k++]=line[i];
      pass[k]='\0';
      i++;
      k=0;
      if (strcmp(ID,id)==0&&strcmp(PASS,pass)==0)
        {
            while(1)
            {
            system("cls");
            cout<<
"_____
_____"<<endl;
            cout<<"                                    LOGIN
SUCCESSFUL                                            "<<endl;
            cout<<
"_____
_____"<<endl;
            cout<<"                                    WELCOME,
ADMIN                                              "<<endl;
            cout<<"\n\n                                       1.TO ADD NEW
ITEM                                          "<<endl;
            cout<<"                                        2.TO DISPLAY THE
ITEMS                                          "<<endl;
            cout<<"                                        3.TO ADD/EDIT
FESTIVAL DATES                                    "<<endl;
            cout<<"                                        4.TO VIEW OLD
BILLS                                          "<<endl;
            cout<<"                                        5.TO DELETE AN
ITEM                                           "<<endl;
            cout<<"                                        6.TO REGISTER AN
EMPLOYEE                                        "<<endl;
            cout<<"
7.EXIT                                                "<<endl;
            cout<<"\n\nINPUT: ";
            cin>>ch;
            system("cls");
            switch(ch)
            {
        case '1':
            {
            cout<<
"_____
_____"<<endl;
            cout<<"                                    ADDING
ITEM                                              "<<endl;
            cout<<
"_____
_____"<<endl;
        ob.edit(); //Overloaded Function edit()  i.e. Dynamic Polymorphism as an OOP
feature
            break;
            }
        case '2':
            {
```

```cpp
            char f;
            ob.displayitem();
            gotoxy(5,18);
            cout<<"\n 1.TO VIEW/EDIT AN ITEM        "<<endl;
            cout<<"   ANY KEY TO RETURN....        "<<endl;
            f=getch();
            if(f!='1')
                break;

            else
            {
             item itemedit;
            cout<<"\n\n                                          1.TO VIEW DETAILS OF
AN ITEM"<<endl;
            cout<<"                                          2.TO EDIT DETAILS OF AN
ITEM"<<endl;
            editing:
            cout<<"\n                                          INPUT:";
            cin>>f;
            if(f=='1'||f=='2')
                itemedit.edit(f);
            else
             {
             cout<<"\n Wrong input...press any key to continue";
             getch();
             goto editing;
             }
            cout<<"\nANY KEY TO RETURN....";
            getch();
            continue;
            }
            }
        case '3':
            {
            ob1.edit_date();
            cout<<"\nANY KEY TO RETURN....";
            getch();
              break;
            }
        case '4':
            {
            char date[20];
            cout<<
"_____
_____"<<endl;
            cout<<"                                              BILL
DETAILS                                             "<<endl;
            cout<<
"_____
_____"<<endl;
            cout<<"\t Enter Date: ";
            cin>>date;
            obj2.see_archived_details(date);
            cout<<"\n\n\n\nANY KEY TO RETURN....        ";
            getch();
            break;
            }
        case '5':
            {
            ob.displayitem();
            gotoxy(40,19);
            cout<<
"\n_____
_____"<<endl;
            cout<<"                                              DELETING
ITEM                                                 "<<endl;
            cout<<
"_____
_____"<<endl;
            cout<<"Enter Product id: ";
```

```cpp
                    cin>>id;
                    ob.remove_item(id);
                    break;
                    }
                case '6':
                    {
                    cout<<
"_____
_____"<<endl;
                    cout<<"                                                    EMPLOYEE
REGISTRATION                                         "<<endl;
                    cout<<
"_____
_____"<<endl;
                    credentials();
                    break;
                    }
                case '7':
                    exit(0);
                    break;
                default:
                    cout<<" Wrong Input !!!!!";
                    }


                    }
            }
        else
                {system("cls");
                cout<<
"_____
_____"<<endl;
                cout<<"                                                    LOGIN
FAILED                                         "<<endl;
                cout<<
"_____
_____"<<endl;
                cout<<"\n\n                                                    ENTER ID:";
                cout<<"\n\n                                                    PASSWORD:";
                gotoxy(60,5);
                cin>>id;
                gotoxy(60,7);
                cin>>pass;
                admin(id,pass);
                }
        delete []line;
        line=new char[sizeof(ifs)];
        ifs>>line;
        }}
};
```