**Create a class Person and two derived classes Employee, and Student, inherited from class Person. Now create a class Manager which is derived from two base classes Employee and Student. Show the use of the virtual base class.**

**#include <iostream>**

**#include <cstring>**

**using namespace std;**

**class person**

**{**

**private:**

**string name;**

**public:**

**person(){}**

**person(string n)**

**{**

**name = n;**

**}**

**string getname()**

**{**

**return name;**

**}**

**};**

**class employee: virtual public person**

**{**

**private:**

**int salary;**

**public:**

**employee(string n, int s):person(n),salary(s){};**

**int getsalary()**

**{**

**return salary;**

**}**

**};**

**class student: virtual public person**

**{**

**private:**

**string major;**

**public:**

**student(string n, string m):person(n),major(m){};**

**string getmajor()**

**{**

**return major;**

**}**

**};**

**class manager:public employee, public student**

**{**

**private:**

**public:**

**manager(string n, string m, int s): employee(n,s), student(n,m), person(n)**

**{**

**};**

**};**

**int main()**

**{**

**manager demo("Acd Efgh","BCT",50000);**

**cout << "Name: " << demo.getname() << endl;**

**cout << "Major: " << demo.getmajor() << endl;**

**cout << "Salary: " << demo.getsalary() << endl;**

**return 0;**

**}**

**#include<iostream>//or**

**#include<conio.h>**

**using namespace std;**

**class Person**

**{**

**int age;**

**public:**

**void person\_getdata()**

**{**

**cout<<"Enter person's age:";**

**cin>>age;**

**}**

**void person\_disp()**

**{**

**cout<<"\nAge="<<age<<endl;**

**}**

**};**

**class Employee:virtual public Person**

**{**

**int emp\_id;**

**public:**

**void employee\_getdata()**

**{**

**cout<<endl<<"Enter employee id:";**

**cin>>emp\_id;**

**}**

**void employee\_disp()**

**{**

**cout<<"\nEmployee id="<<emp\_id<<endl;**

**}**

**};**

**class Student:virtual public Person**

**{**

**int roll\_no;**

**public:**

**void student\_getdata()**

**{**

**cout<<endl<<"Enter student's roll number:";**

**cin>>roll\_no;**

**}**

**void student\_disp()**

**{**

**cout<<"\nRoll number="<<roll\_no<<endl;**

**}**

**};**

**class Manager:public Student,public Employee**

**{**

**string company\_name;**

**public:**

**void manager\_getdata()**

**{**

**cout<<endl<<"Enter company name:";**

**cin>>company\_name;**

**}**

**void manager\_disp()**

**{**

**cout<<"\nCompany name="<<company\_name<<endl;**

**}**

**};**

**int main()**

**{**

**Manager mobj;**

**mobj.person\_getdata();**

**mobj.employee\_getdata();**

**mobj.student\_getdata();**

**mobj.manager\_getdata();**

**system("cls");**

**mobj.person\_disp();**

**mobj.employee\_disp();**

**mobj.student\_disp();**

**mobj.manager\_disp();**

**return 0;**

**}**