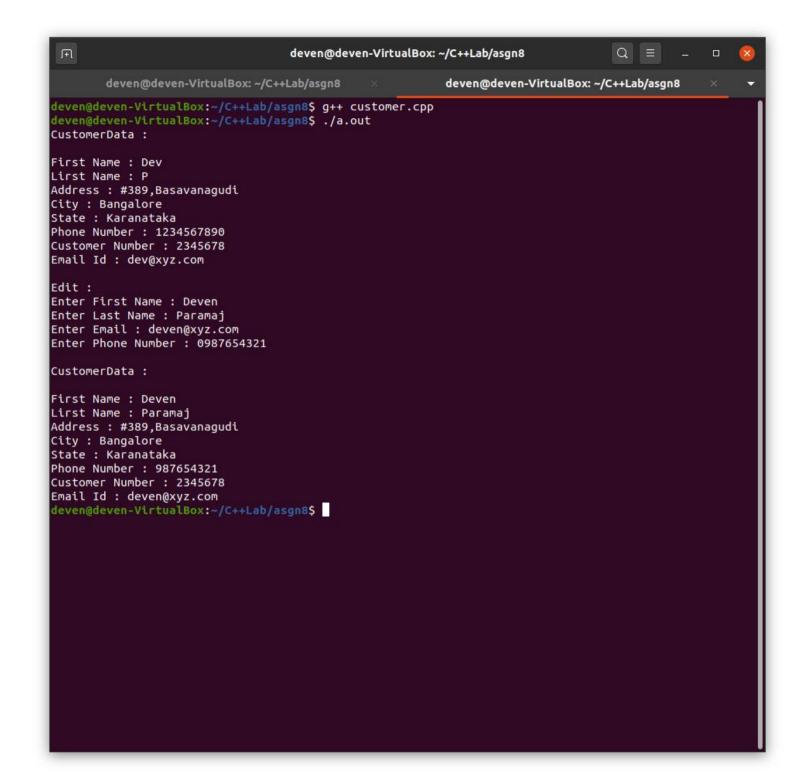
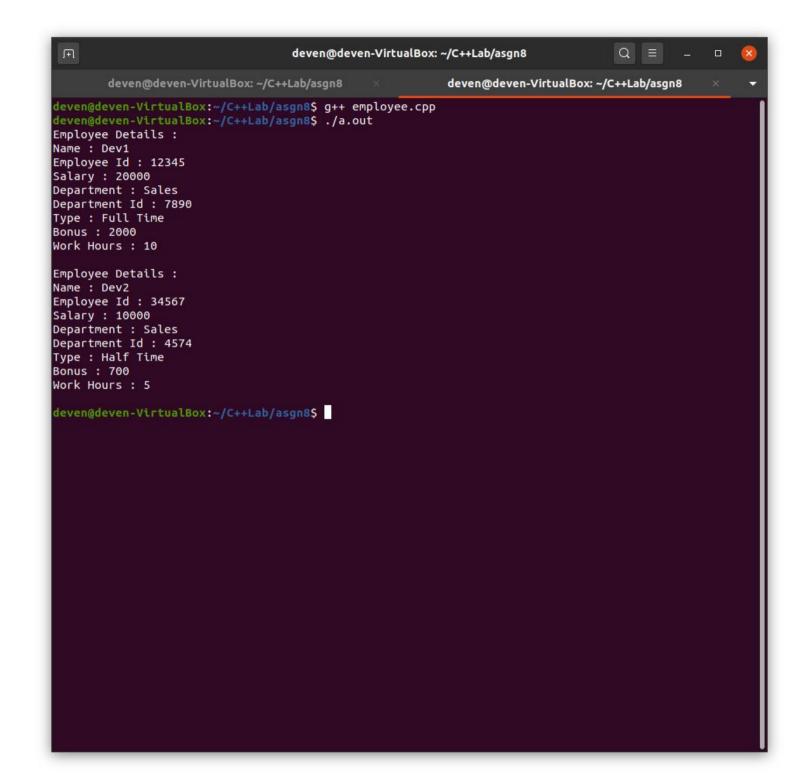
```
customer.cpp
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#include <iostream>
using namespace std:
class PersonData
     private:
         string firstName, lastName, address, city, state;
         int phoneNo;
     public :
         PersonData(string &f, string &l, string &a, string &c, string &s, int p) : firstName(f),
lastName(l). address(a). citv(c). state(s). phoneNo(p) {}
         void setFirstName(string &f){ firstName = f; }
         void setLastName(string &l){ lastName = 1; }
         void setAddress(string &a){ address = a; }
         void setCity(string &c){ city = c; }
         void setState(string &s){ state = s; }
         void setPhoneNo(int p){ phoneNo = p; }
         string getFirstName(){ return firstName; }
         string getLastName(){ return lastName; }
         string getAddress(){ return address; }
         string getCity(){ return city; }
         string getState(){ return state; }
         int getPhoneNo(){ return phoneNo; }
1;
class CustomerData : public PersonData
     private:
         string emailId;
         int customerNo;
     public :
         CustomerData(string f, string l, string a, string c, string s, int p, string e, int
cno) : PersonData(f, l, a, c, s, p), emailId(e), customerNo(cno) {}
         void setCustomerNo(int cNo){ customerNo = cNo; }
         void setEmailId(string &e){ emailId = e; }
         int getCustomerNo(){ return customerNo; }
         string getEmailId(){ return emailId; }
0 };
void display(CustomerData &c)//wrote separate fucntion to show the use of get functions
     cout << "CustomerData : " << endl << endl;</pre>
     cout << "First Name : " << c.getFirstName() << endl;</pre>
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```

```
customer.cpp
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         customerpaca(string i, string i, string a, string c, string s, thi p, string e, thi
 cno) : PersonData(f, l, a, c, s, p), emailId(e), customerNo(cno) {}
         void setCustomerNo(int cNo){ customerNo = cNo; }
         void setEmailId(string &e){ emailId = e; }
         int getCustomerNo(){ return customerNo; }
         string getEmailId(){ return emailId; }
1;
2 void display(CustomerData &c)//wrote separate fucntion to show the use of get functions
     cout << "CustomerData : " << endl << endl;</pre>
     cout << "First Name : " << c.getFirstName() << endl;</pre>
     cout << "Lirst Name : " << c.getLastName() << endl;</pre>
     cout << "Address : " << c.getAddress() << endl;</pre>
     cout << "City : " << c.getCity() << endl;</pre>
     cout << "State : " << c.getState() << endl;</pre>
     cout << "Phone Number : " << c.getPhoneNo() << endl;</pre>
     cout << "Customer Number : " << c.getCustomerNo() << endl;</pre>
     cout << "Email Id : " << c.getEmailId() << endl;</pre>
int main()
     CustomerData c("Dev", "P", "#389, Basavanagudi", "Bangalore", "Karanataka", 1234567890,
 "dev@xyz.com", 2345678);
     display(c);
     string s:
     int n:
     cout << endl;
     cout << "Edit : " << endl;</pre>
     cout << "Enter First Name : ";</pre>
     cin >> s:
     c.setFirstName(s);
     cout << "Enter Last Name : ":</pre>
     cin >> s:
     c.setLastName(s);
     cout << "Enter Email : ";</pre>
     cin >> s:
     c.setEmailId(s);
     cout << "Enter Phone Number : ";</pre>
     cin >> n;
     c.setPhoneNo(n);
     cout << endl:
     display(c);
     return 0;
```



```
employee.cpp
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                                              ~/C++Lab/asgn8
#include <iostream>
 using namespace std:
4 class employee
     private:
         string name;
         int employeeId;
         int salary;
     public:
         employee(string n = "NULL", int id = 0, int s = 0): name(n), employeeId(id), salary(s){}
         int getSalary(){ return salary; }
         void display();
4 };
6 void employee::display()
     cout << "Employee Details : " << endl;</pre>
     cout << "Name : " << name << endl;</pre>
     cout << "Employee Id : " << employeeId << endl;</pre>
     cout << "Salary : " << salary << endl;</pre>
4 class salesPerson : public employee
     private:
         int deptId;
     public:
         salesPerson(string n = "NULL", int id = 0, int s = 0, int dId = 0) : employee(n, id, s),
 deptId(dId) {}
         void display();
};
void salesPerson::display()
     employee::display();
     cout << "Department : Sales" << endl;</pre>
     cout << "Department Id : " << deptId << endl;</pre>
class fullTimeSalesPerson : public salesPerson
     private:
         int bonus, workHours;
     public:
         fullTimeSalesPerson(string n = "NULL", int id = 0, int s = 0, int dId = 0):
 salesPerson(n, id, s, dId)
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```

```
employee.cpp
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     public:
         fullTimeSalesPerson(string n = "NULL", int id = 0, int s = 0, int dId = 0):
salesPerson(n, id, s, dId)
             bonus = static cast<float>(getSalary() * 10) / 100;
             workHours = 10;
         void display():
1;
void fullTimeSalesPerson::display()
     salesPerson::display():
     cout << "Type : Full Time" << endl;</pre>
     cout << "Bonus : " << bonus << endl;
    cout << "Work Hours : " << workHours << endl << endl;</pre>
class halfTimeSalesPerson : public salesPerson
     private:
         int workHours;
         float bonus;
     public:
         halfTimeSalesPerson(string n = "NULL", int id = 0, int s = 0, int dId = 0):
salesPerson(n, id, s, dId)
             bonus = static_cast<float>(getSalary() * 7) / 100;
             workHours = 5;
         void display();
};
5 void halfTimeSalesPerson::display()
     salesPerson::display();
    cout << "Type : Half Time" << endl;</pre>
     cout << "Bonus : " << bonus << endl;</pre>
    cout << "Work Hours : " << workHours << endl << endl;</pre>
3 int main()
     fullTimeSalesPerson f("Dev1", 12345, 20000, 7890);
     f.display();
    halfTimeSalesPerson h("Dev2", 34567, 10000, 4574);
     h.display();
```



```
office.cpp
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#include <iostream>
using namespace std:
4 class Person
     private:
         string name;
         int phoneNo;
     public :
         Person(string &n, int p) : name(n), phoneNo(p) {}
         void display()
             cout << "Name : " << name << endl << "Phone Number : " << phoneNo << endl;
5 };
7 class Faculty : public Person
     private:
         int facultyNo;
     public :
         Faculty(string n, int p, int fno) : Person(n, p), facultyNo(fno) {}
         void display()
             cout << "Faculty : " << endl;</pre>
             Person::display();
             cout << "Faculty Number : " << facultyNo << endl << endl;</pre>
9 };
class NonTeachingStaff : public Person
     private:
         int nonTeachingStaffNo;
         NonTeachingStaff(string n, int p, int no) : Person(n, p), nonTeachingStaffNo(no) {}
         void display()
             cout << "Non Teaching Staff : " << endl;</pre>
             Person::display();
             cout << "Non Teaching Staff Number : " << nonTeachingStaffNo << endl << endl;</pre>
};
class OfficeStaff : public Person
     private:
         int officeStaffNo
                                                          C++ ▼ Tab Width: 4 ▼
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```

```
office.cpp
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     public :
         Faculty(string n, int p, int fno) : Person(n, p), facultyNo(fno) {}
         void display()
             cout << "Faculty : " << endl:
             Person::display():
             cout << "Faculty Number : " << facultyNo << endl << endl;</pre>
};
class NonTeachingStaff : public Person
     private:
         int nonTeachingStaffNo;
     public :
         NonTeachingStaff(string n, int p, int no): Person(n, p), nonTeachingStaffNo(no) {}
         void display()
             cout << "Non Teaching Staff : " << endl:</pre>
             Person::display():
             cout << "Non Teaching Staff Number : " << nonTeachingStaffNo << endl << endl;</pre>
};
class OfficeStaff : public Person
     private:
         int officeStaffNo;
     public :
         OfficeStaff(string n, int p, int no) : Person(n, p), officeStaffNo(no) {}
         void display()
             cout << "Office Staff : " << endl;</pre>
             Person::display();
             cout << "Office Staff Number : " << officeStaffNo << endl << endl;</pre>
};
int main()
    Faculty f("A", 12345, 987);
    NonTeachingStaff n("B", 23456, 345);
    OfficeStaff o("C", 34567, 567);
    f.display();
    n.display();
    o.display();
     return 0;
```

