Practical No: 04

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Title:

Write a program to demonstrate encapsulation and inheritance concept.

Source Code for Multiple Inheritance:

```
#include<iostream>
#include<string.h>
using namespace std;
class employeedata
    protected:
    string name,address;
    int id;
    public:
        void input1()
         {
             cout<<"Enter the name of employee :";</pre>
             getline(cin,name);
             cout<<"Enter id of the employee :";</pre>
             cin>>id;
             cout<<"Enter the address of employee:";</pre>
             cin>>address;
        void display1()
         {
             cout<<"Name of employee is :"<<name<<endl;</pre>
             cout<<"Id of employee is :"<<id<<endl;</pre>
```

```
cout<<"Address of employee is :"<<address<<endl;</pre>
         }
};
class products
    protected:
    string pname;
    float price;
    int pid;
    public:
         void input2()
         {
             cout<<"Enter the name of Product :";</pre>
             cin>>pname;
             cout<<"Enter the price of the product :";</pre>
             cin>>price;
             cout<<"Enter the product id :";</pre>
             cin>>pid;
         void display2()
             cout<<"Name of product is :"<<pname<<endl;</pre>
             cout<<"Price of the product is :"<<price<<endl;</pre>
             cout<<"Id of product is :"<<pid<<endl;</pre>
         }
};
class supplier
    protected:
    string sname,pname2;
    int cn;
    public:
         void input3()
```

```
{
             cout<<"Enter the supplier name :";</pre>
             cin>>sname;
             cout<<"Enter the contact number of the supplier :";</pre>
             cin>>cn;
             cout<<"Enter the supplied product name :";</pre>
             cin>>pname2;
         }
        void display3()
             cout<<"Supplier name is :"<<sname<<endl;</pre>
             cout<<"Contact number of suuplier is "<<cn<<endl;</pre>
             cout<<"Supplied product name is :"<<pname2<<endl;</pre>
         }
class company: public employeedata, public products, public
supplier
    protected:
    string cname,add2;
    int tn;
    public:
        void input4()
        {
             cout<<"Enter the name of the company:";</pre>
                  cin>>cname;
             cout<<"Enter the address of the company :";</pre>
             cin>>add2;
             cout<<"Enter the total number of the employee in</pre>
the company :";
             cin>>tn;
        void display4()
         {
             cout<<"Name of the company is :"<<cname<<endl;</pre>
```

```
cout<<"Address of the company is :"<<add2<<end1;</pre>
             cout<<"Total number of employee is the company is</pre>
:"<<tn<<endl;
        }
};
int main()
    company a;
    a.input1();
    a.input2();
    a.input3();
    a.input4();
    a.display1();
    a.display2();
    a.display3();
    a.display4();
    return 0;
```

Output:

Enter the name of employee :pradip
Enter id of the employee :1
Enter the address of employee:jalna
Enter the name of Product :bat
Enter the price of the product :200
Enter the product id :2
Enter the supplier name :tata
Enter the contact number of the supplier :909634
Enter the supplied product name :book
Enter the name of the company:tatatrust
Enter the address of the company :kopergaon
Enter the total number of the employee in the company :100
Name of employee is :pradip

Id of employee is:1

Address of employee is :jalna

Name of product is :bat Price of the product is :200

Id of product is :2

Supplier name is :tata

Contact number of suuplier is 909634

Supplied product name is :book

Name of the company is :tatatrust

Address of the company is :kopergaon

Total number of employee is the company is :100

End