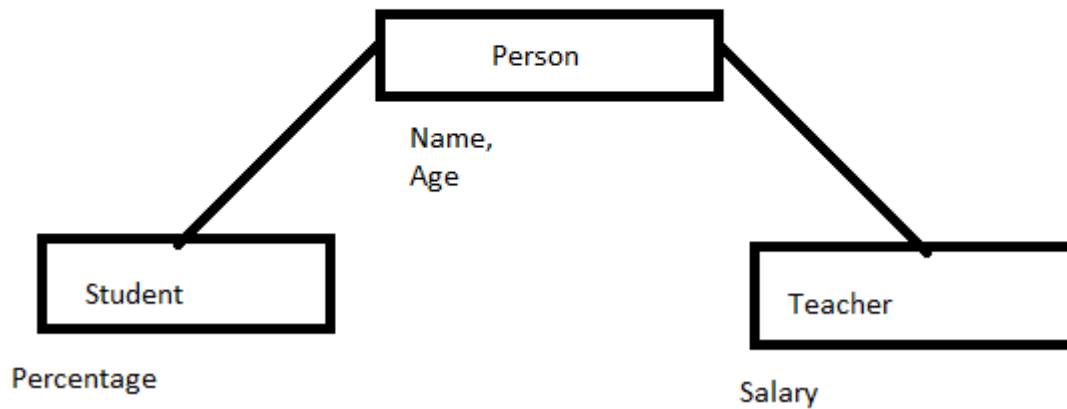


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Q-2) Write a code of Following Hierarchical Inheritance.

All Classes have `getdata()` and `display()` Function.



Program:

```
#include <iostream>
#include <iomanip>
using namespace std;
```

```
class Person
{
public:
    string name;
    int age;

    void getdata()
```

```
{

    cout << "Enter the Name: ";
    cin >> name;
    cout << "Enter the Age: ";
    cin >> age;

}

void putdata()
{
    cout << "Name " << name << endl;
    cout << "Age: " << age << endl;
}

};

class Student : public Person
{
public:
    int percentage;

    void gtdata()
    {

        cout << "Enter the Percentage: ";
        cin >> percentage;
    }
}
```

```
void ptdata()
{
    cout << "Percentage: " << percentage << "%" << endl;
}
};
```

```
class Teacher : public Person
{
public:
    float salary;

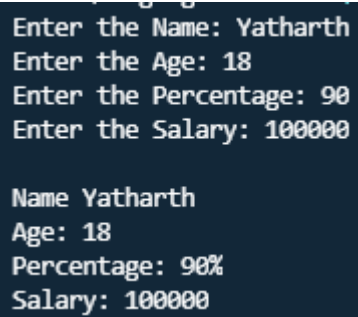
    void gdata()
    {
        cout << "Enter the Salary: ";
        cin >> salary;
    }

    void pdata()
    {
        cout << "Salary: " << salary << endl;
    }
};
```

```
int main()
{
    Student s;
    Person p;
    Teacher t;
```

```
p.getdata();  
s.gtdata();  
t.gdata();  
  
cout << endl;  
  
p.putdata();  
s.ptdata();  
t.pdata();  
  
return 0;  
}
```

Output:

A screenshot of a terminal window with a dark blue background and white text. It shows the input and output of a C++ program. The input consists of four lines: 'Enter the Name: Yatharth', 'Enter the Age: 18', 'Enter the Percentage: 90', and 'Enter the Salary: 100000'. The output consists of four lines: 'Name Yatharth', 'Age: 18', 'Percentage: 90%', and 'Salary: 100000'.

```
Enter the Name: Yatharth  
Enter the Age: 18  
Enter the Percentage: 90  
Enter the Salary: 100000  
  
Name Yatharth  
Age: 18  
Percentage: 90%  
Salary: 100000
```