

Example 1

```
class person
{
    String name;
    int age;
}

class student extends person
{
    int level;
}

class employee extends person
{
    double salary;
}

public static void main(String[] args)
{
    student Student1=new student();
        Student1.name="Omer";
        Student1.age=22;
        Student1.level=3;

        employee employee1=new employee();
        employee1.name="salim";
        employee1.age=30;
        employee1.salary=30000;

        System.out.println("student name : "+ Student1.name);
        System.out.println("student level : " + Student1.age);

        System.out.println("employee name : "+ employee1.name);
        System.out.println("employee salary : " + employee1.salary);
    }
}
```

Example 2

```
class Calculation
{
    int z;
    public void addition(int x, int y)
    {
        z = x + y;
        System.out.println("The sum is : "+z);
    }

    public void Subtraction(int x, int y)
    {
        z = x - y;
        System.out.println("The difference is : "+z);
    }
}

class mycalc extends Calculation
{
    public void multiplication(int x, int y)
    {
        z = x * y;
        System.out.println("The product is : "+z);
    }
}

public static void main(String[] args)
{
    mycalc x=new mycalc();
    x.addition(5,6 );
    x.Subtraction(100, 30);
    x.multiplication(30, 2);
}
}
```

Example 3

```
class Parent
{
    String name;
}
public class Child extends Parent {
    String name;
    public void details()
    {
        super.name = "Parent";    //refers to parent class member
        name = "Child";
        System.out.println(super.name+" and "+name);
    }
    public static void main(String[] args)
    {
        Child cobj = new Child();
        cobj.details();
    }
}
```

Example 4

```
class Doctor {
    void Doctor_Details() {
        System.out.println("Doctor Details...");
    }
}

class Surgeon extends Doctor {
    void Surgeon_Details() {
        System.out.println("Surgen Detail...");
    }
}

public class Hospital {
    public static void main(String args[]) {
        Surgeon s = new Surgeon();
        s.Doctor_Details();
        s.Surgeon_Details();
    }
}
```

Example 5

```
class Vehicle
{
    private String make;
    private int year;
    Vehicle(String make, int year)
    {
        this.make = make;
        this.year = year;
    }
    String getMake()
    {
        return make;
    }
    int getYear()
    {
        return year;
    }
    void print()
    {
        System.out.println("Make: " + make + ", Year: " + year);
    }
}

class Truck extends Vehicle
{
    private double tonnage;
    Truck(String make, int year, double tonnage)
    {
        super(make, year);
        this.tonnage = tonnage;
    }
    double getTonnage()
    {
        return tonnage;
    }
    void print()
    {
        super.print();
        System.out.println("Tonnage: " + tonnage);
    }
}

public static void main(String[] args)
{
    Truck truck = new Truck("Ford", 2008, 0.5);
    System.out.println("Make = " + truck.getMake());
    System.out.println("Year = " + truck.getYear());
    System.out.println("Tonnage = " + truck.getTonnage());
    truck.print();
}
}
```