```
package com.tnsif.oopsconcept;

//Single Inheritance

class Animal{
 String name;

 //Constructor

 Animal(String name){
  this.name = name;
 }

 void display() {
  System.out.println("Animal Name: "+name);
 }
}

class Dog extends Animal{

 String breed;

 Dog(String name , String breed){
  super(name);
  this.breed = breed;
 }

 void showDetails() {
  display();
  System.out.println("Dog Breed: "+breed);
 }

}
```

```
//multilevel inheritance

class grandparent{
 void gp() {
  System.out.println("Grand parent class");
 }
}

class Parent extends grandparent {
 void p() {
  System.out.println("Parent class");
 }
}

class Child extends Parent{
 void child() {
  System.out.println("Child class");
 }
}


//multiple inheritance

class Parent1{
 void pt1() {
  System.out.println("parent 1");
 }
}

class Parent2{
 void pt2() {
```

```
  System.out.println("parent 2");
 }
}


//hierarichcial inheritance
class Fruit{
 void show() {
  System.out.println("I like to eat fruits");
 }
}

class Apple extends Fruit{
 void AppleDemo() {
  System.out.println("I like to eat apple");
 }
}

class Grapes extends Fruit{
 void GrapesDemo() {
  System.out.println("I like to eat grapes");
 }
}


/*
 * class Child1 extends Parent1, Parent2{ void child1() {
 * System.out.println("Child 1"); } }
 */


public class InheritanceDemo {
```

```
public static void main(String[] args) {

 Dog d = new Dog("John","Seberian Husky");
 d.showDetails();

 Child c = new Child();
 c.child();
 c.p();
 c.gp();


 Apple a = new Apple();
 a.AppleDemo();
 a.show();

 Grapes g = new Grapes();
   g.GrapesDemo();
   g.show();




  }

}
```