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Experiment # 10: Practicing Single & Multilevel Inheritance

Write java codes that illustrate respectively single, multilevel, and hierarchical inheritance.

```
public class Animal {  
    void eat(){  
        System.out.println("This animal can eat");  
    }  
}
```

```
Practical_OOP > Lab_5 > J Animal.java > ...  
1  public class Animal {  
2      void eat(){  
3          System.out.println(x:"This animal can eat");  
4      }  
5  }  
6
```

```
public class Dog extends Animal {  
    void bark(){  
        System.out.println("The dog barks.");  
    }  
}
```

```
Practical_OOP > Lab_5 > J Dog.java > ...  
1  public class Dog extends Animal {  
2      void bark(){  
3          System.out.println(x:"The dog barks.");  
4      }  
5  }
```



```
public class SingleInheritance{  
    public static void main(String [] args)  
    {  
        Dog myDog = new Dog();  
        myDog.eat();  
        myDog.bark();  
    }  
}
```

```
Practical_OOP > Lab_5 > SingleInheritance.java > SingleInheritance  
1  public class SingleInheritance{  
    Run | Debug  
2      public static void main(String [] args)  
3      {  
4          Dog myDog = new Dog();  
5          myDog.eat();  
6          myDog.bark();  
7      }  
8  }
```

```
This animal can eat  
The dog barks.
```

```
public class Puppy extends Dog {  
  
    void weep(){  
        System.out.println("The puppy is weeping.");  
    }  
  
}
```

```
public class Puppy extends Dog {  
  
    void weep(){  
        System.out.println(x:"The puppy is weeping.");  
    }  
  
}
```



```
public class MultiLevelInheritance {  
    public static void main(String[] args) {  
        Puppy myPuppy = new Puppy();  
  
        myPuppy.eat();  
        myPuppy.bark();  
        myPuppy.weep();  
    }  
}
```

```
public class MultiLevelInheritance {  
    Run | Debug  
    public static void main(String[] args) {  
        Puppy myPuppy = new Puppy();  
  
        myPuppy.eat();  
        myPuppy.bark();  
        myPuppy.weep();  
    }  
}
```

```
n' 'MultiLevelInheritance'  
This animal can eat  
The dog barks.  
The puppy is weeping.
```

```
public class Cat extends Animal {  
    void meow(){  
        System.out.println("The cat meows.");  
    }  
}
```

```
1 public class Cat extends Animal {  
2     void meow(){  
3         System.out.println(x:"The cat meows.");  
4     }  
5 }
```



```
public class HierarchicalInheritance {  
  
    public static void main(String[] args) {  
        Dog myDog = new Dog();  
        Cat myCat = new Cat();  
  
        myDog.eat();  
        myDog.bark();  
  
        myCat.eat();  
        myCat.meow();  
    }  
}
```

```
public class HierarchicalInheritance {  
    Run | Debug  
    public static void main(String[] args) {  
        Dog myDog = new Dog();  
        Cat myCat = new Cat();  
  
        myDog.eat();  
        myDog.bark();  
  
        myCat.eat();  
        myCat.meow();  
    }  
}
```

```
n' 'HierarchicalInheritance'  
This animal can eat  
The dog barks.  
This animal can eat  
The cat meows.
```