1.Single Inheritance Example

```java
class Animal{

void eat(){

System.out.println("eating...");

}

}

class Dog extends Animal{

void bark(){System.out.println("barking...");

}

}

class TestInheritance{

public static void main(String args[]){

Dog d=new Dog();

d.bark();

d.eat();

}

}
```

```
Command Prompt

Microsoft Windows [Version 10.0.19045.3448]
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C:\Users\DS>D:

D:\>javac  TestInheritance.java
error: file not found: áTestInheritance.java
Usage: javac <options> <source files>
use --help for a list of possible options

D:\>javac TestInheritance.java

D:\>java TestInheritance
barking...
eating...

D:\>
```

2. Multilevel Inheritance Example

class Animal{

void eat(){System.out.println("eating...");

}

}

class Dog extends Animal{

void bark(){System.out.println("barking...");
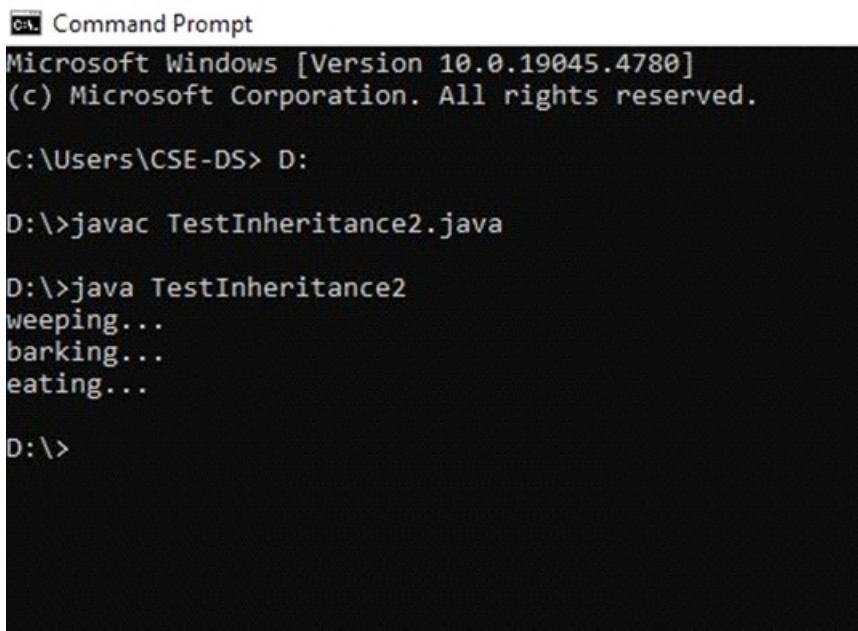
}

}

class BabyDog extends Dog{

void weep(){System.out.println("weeping...");

}

}

class TestInheritance2{

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

BabyDog d=new BabyDog();

d.weep();

d.bark();

d.eat();

}

}
```


3. Hierarchical Inheritance Example

```
class Animal{

void eat(){System.out.println("eating...");

}

}

class Dog extends Animal{

void bark(){System.out.println("barking...");
```

```java
    }

}

class Cat extends Animal{

void meow(){System.out.println("meowing...");

}

}

class TestInheritance3{

public static void main(String args[]){

Cat c=new Cat();

c.meow();

c.eat();

}

}
```
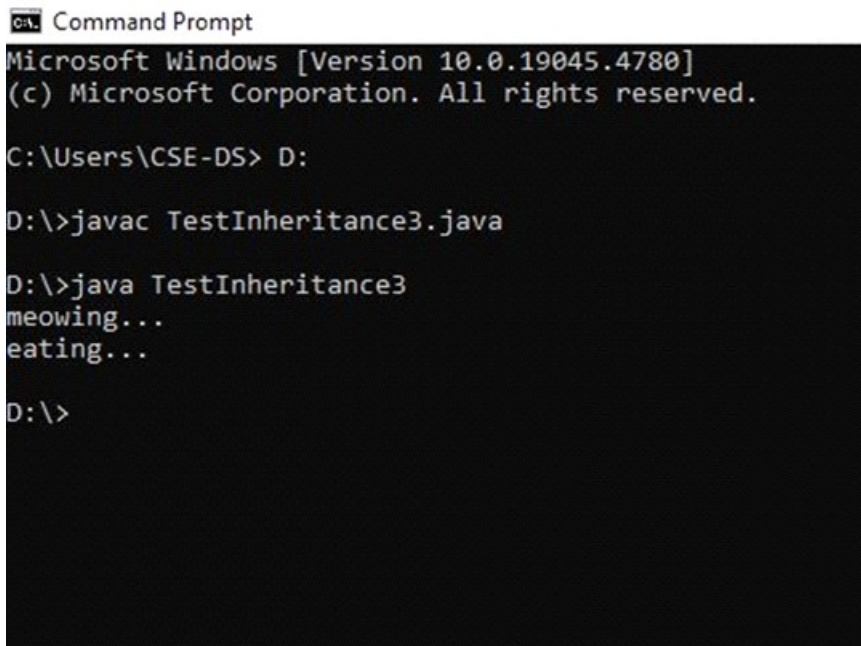
Command Prompt

```
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C:\Users\CSE-DS> D:

D:\>javac TestInheritance3.java

D:\>java TestInheritance3
meowing...
eating...

D:\>
```

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