

**Assignment-1.** Write a Java program that demonstrates method overriding by creating a superclass called Animal and two subclasses called Dog and Cat. • The Animal class should have a method called makeSound(), which simply prints "The animal makes a sound." • The Dog and Cat classes should override this method to print "TheCat/The dog meows/barks" respectively • The program should allow the user to create and display objects of each class

**Program:**

```
package Oops;

class Animal
{
    public void makeSound()
    {
        System.out.println("The animal makes a sound.");
    }
}

class Dog extends Animal
{
    @Override

    public void makeSound()
    {
        System.out.println("The dog barks.");
    }
}

class Cat extends Animal
{
    @Override
    public void makeSound()
    {
        System.out.println("The cat meows.");
    }
}

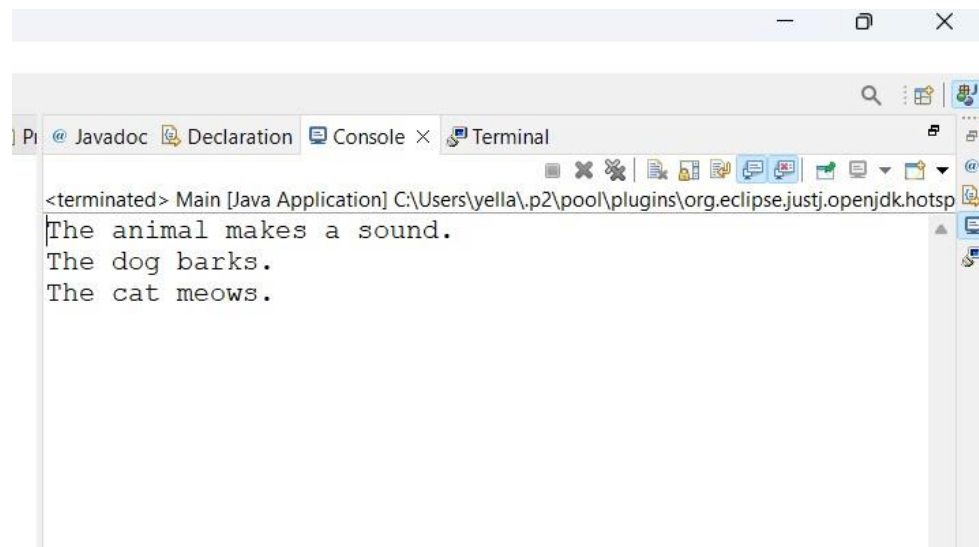
public class Main
{
    public static void main(String[] args)
    {

        Animal animal = new Animal();
        Dog dog = new Dog();
        Cat cat = new Cat();

        animal.makeSound();
        dog.makeSound();
        cat.makeSound();
    }
}
```

```
}  
}
```

## Output:



The screenshot shows the Eclipse IDE interface with the 'Terminal' tab selected. The terminal output is as follows:

```
<terminated> Main [Java Application] C:\Users\yella\.p2\pool\plugins\org.eclipse.justj.openjdk.hotsp  
The animal makes a sound.  
The dog barks.  
The cat meows.
```