

Lab11-Assignment

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- 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.

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

```
class Dog implements Animal {  
    @Override  
    public void makeSound() {  
        System.out.println("The dog barks.");  
    }  
}
```

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

```
public static void main(String[] args) {  
    Animal dog = new Dog();  
}
```

```
Animal cat = new Cat();

System.out.println("Dog sound:");
dog.makeSound();

System.out.println("Cat sound:");
cat.makeSound();
}
}
```

Output:

