Assignment

Id:AF0342201

Name:G.Mamatha

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.

Program

```java
package javafiles;

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

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

class Cat extends Animal {
void makeSound() {
System.out.println("The cat meows.");
}
}
public class Anim {
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 animal makes a sound.
The dog barks.
The cat meows.
```