## Aim:

Write a Java program that implements runtime polymorphism.

Create a class Animal with one method whoAmI() which will print I am a generic animal.

Create another class [Dog] which extends [Animal], which will print I am a dog.

Create another class Cow which extends Animal, which will print I am a cow.

Create another class [Snake] which extends [Animal], which will print I am a snake.

Write a class RuntimePolymorphismDemo with the main() method, create objects to all the classes Animal, Dog, Cow, Snake and call whoAmI() with each object.

**Note:** Please don't change the package name.

## **Source Code:**

## q11277/RuntimePolymorphismDemo.java

```
package q11277;
public class RuntimePolymorphismDemo {
   public static void main(String[] args) {
      Animal ref1 = new Animal();
      Animal ref2 = new Dog();
      Animal ref3 = new Cow();
      Animal ref4 = new Snake();
      ref1.whoAmI();
      ref2.whoAmI();
      ref3.whoAmI();
      ref4.whoAmI();
}
// Write all the classes with methods
class Animal
   void whoAmI()
      System.out.println("I am a generic animal");
   }
class Dog extends Animal
   void whoAmI()
      System.out.println("I am a dog");
class Cow extends Animal
   void whoAmI()
```

```
System.out.println("I am a cow");
  }
}
class Snake extends Animal
  void whoAmI()
      System.out.println("I am a snake");
}
```

## Execution Results - All test cases have succeeded!

Test Case - 1
User Output
I am a generic animal
I am a dog
I am a cow
I am a snake