**package** generics;

**import** java.util.ArrayList;

**public** **class** AnimalCollection<X **extends** Animal> {

ArrayList<X> collection = **new** ArrayList<X>();

**void** add(X animal)

{

collection.add(animal);

}

**void** makeAllNoises()

{

**for** (**int** i=0; i < collection.size(); i++)

{

X animal = collection.get(i);

animal.makesNoise();

}

}

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

System.***out***.println("Dairy:");

AnimalCollection<Cow> dairy = **new** AnimalCollection<Cow>();

dairy.add(**new** Cow("Molly"));

dairy.add(**new** Cow("Bess"));

dairy.makeAllNoises();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("SnakePit:");

AnimalCollection<Snake> snakePit = **new** AnimalCollection<Snake>();

snakePit.add(**new** Snake("Judas"));

snakePit.add(**new** Snake("Benedict"));

snakePit.makeAllNoises();

//dairy.add(new Snake("Jezebel"));

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("Zoo:");

AnimalCollection<Animal> zoo = **new** AnimalCollection<Animal>();

zoo.add(**new** Horse("Prince"));

zoo.add(**new** Cow("Molly"));

zoo.add(**new** Snake("Judas"));

zoo.makeAllNoises();

//snakePit.add(new Horse("Gettup"));

}

}

Output:

Dairy:

Moooo

Moooo

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SnakePit:

Hiss

Hiss

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Zoo:

Whinny

Moooo

Hiss