import java.util.Map;

import java.util.TreeMap;

public class CatRegistry {

private Map<String, Cat> \_registry = new TreeMap<String, Cat>();

public class ExistingCat extends Exception{}

public class NoSuchCat extends Exception{}

public Cat get(String name) throws NoSuchCat{

if(\_registry.get(name)==null)

throw new NoSuchCat();

return \_registry.get(name);

}

public void put(Cat cat) throws ExistingCat

{

boolean sucess = false;

try{

get(cat.getName());

} catch(NoSuchCat exception){

sucess = true;

}

if (sucess)

\_registry.put(cat.getName(), cat);

else

throw new ExistingCat();

}

public static void main(String[] args) throws NoSuchCat, ExistingCat{

CatRegistry registry = new CatRegistry();

Cat c1 = new Cat("Pantufa", 9);

Cat c2 = new Cat("Tareco", 1);

registry.put(c1);

registry.put(c2);

try{

registry.put(c1);}

catch(ExistingCat e){

System.out.println("Pantufa already exists");

}

registry.get("Pantufa");

try{

registry.get("Garfield");}

catch(NoSuchCat e){

System.out.println("Garfield doesn't exist");

}

System.out.println(c1);

System.out.println(c2);

}

}

public class Cat{

private String \_name = " ";

private int \_age = 0;

public Cat(String name, int age) { \_name = name; \_age = age; }

public String getName() { return \_name; }

public String toString() { return "CAT: " + \_name + " " + \_age; }

}