```
//Solution exercice 19:
package pet;
import java.util.Random;
public class Pet {
      String name;
      String color;
      Pet(){name="pet"; color="black";}
9
      Pet(String n, String col){name=n; color=col;}
11
       void setName(String n){name=n;}
12
      String getName(){return name;}
14
       void setColor(String c){color=c;}
15
16
      String getColor(){return color;}
17
      String Speak() { return "I am your cuddly pet"; }
18
19
      void Afficher(){System.out.println(name +" "+ color);}
20
21 }
22
23 class Chamellon extends Pet{
24
      void changeColor(){
25
          Random n=new Random(); int c=n.nextInt(4);
26
           if (c==0) super.setColor("Red");
27
28
           else if (c==1) super.setColor( "Green");
           else if (c==2) super.setColor("Yellow");
29
30
           else super.setColor("Blue");
31
32
33
      @Override
      String Speak() { return "Silent all time";}
34
35 }
37 class Cat extends Pet{
38
      Cat(){super("mimi", "Red");}
39
      Cat(String name, String color){super(name, color);}
40
41
42
      boolean Sleep(){
      Random n=new Random(); int sleep=n.nextInt(2);
43
44
           if (sleep==0)return false; else return true;
45
46
47
      @Override
      String Speak(){
48
      return "Dont give me orders \n I speak only when I want";
49
50
      }
51
      @Override
52
53
      void Afficher() {
      super.Afficher();
54
      if (Sleep()) System.out.println("Cat is sleeping");
55
       else System.out.println("Cat is awake");
56
57
58 }
59
60 class Dog extends Pet{
Dog(){super("chacha", "Red");}
  Dog(String name, String color){super(name, color);}
62
63
   void Catchsteak(){System.out.println("Ok Master, I do");}
64
65
66
       @Override
      String Speak() {return super.Speak()+"I speak only whenever you
67
      want to":
68
      } }
```

Listing 6 – Solution exercice 19-Classe Pet - Cat - Dog et Chamillon