

```
1 /*
2  * Written by JJ Shepherd
3  */
4 public class Cat {
5     private String name;
6     private double weight;
7     private int numberOfLegs;
8
9     public Cat()
10    {
11        this.name = "none";
12        this.weight = 1.0;
13        this.numberOfLegs = 4;
14    }
15    public Cat(String aN, double aW, int aL)
16    {
17        this.setName(aN);
18        this.setWeight(aW);
19        this.setNumberOfLegs(aL);
20    }
21    public String getName()
22    {
23        return this.name;
24    }
25    public double getWeight()
26    {
27        return this.weight;
28    }
29    public int getNumberOfLegs()
30    {
31        return this.numberOfLegs;
32    }
33    public void setName(String aN)
34    {
35        if(aN != null)
36        {
37            this.name = aN;
38        }
39        else
40        {
41            this.name = "none";
42        }
43    }
44    public void setWeight(double aW)
45    {
46        if(aW > 0.0)
47        {
48            this.weight = aW;
49        }
50        else
51        {
52            this.weight = 1.0;
53        }
54    }
55    public void setNumberOfLegs(int aL)
56    {
57        if(aL >= 0 && aL <= 4)
```

Cat.java

```
58     {
59         this.numberOfLegs = aL;
60     }
61     else
62     {
63         this.numberOfLegs = 4;
64     }
65 }
66 public boolean equals(Cat aC)
67 {
68     return aC != null &&
69         this.name.equals(aC.getName()) &&
70         this.weight == aC.getWeight() &&
71         this.numberOfLegs == aC.getNumberOfLegs();
72 }
73 public String toString()
74 {
75     return this.name+" "+this.weight+" "+this.numberOfLegs;
76 }
77 public void eat()
78 {
79     this.weight += 1.0;
80 }
81 public void sleep()
82 {
83     System.out.println("Zzz. Cat snore");
84 }
85 public void destroyYourStuff()
86 {
87     System.out.println("I am become"+this.name+" destroyer of worlds");
88 }
89 }
90
```