```java
 1   import java.util.ArrayList;
 2   import java.util.Scanner;
 3   import java.util.Iterator;
 4
 5   public class petlist{
 6           ArrayList<Pet> mainList;
 7           Iterator<Pet> it;
 8           Scanner get;
 9
10           public petlist(){
11                   mainList = new ArrayList<Pet>();
12           }
13
14           public void addDog(){
15               get = new Scanner(System.in);
16
17               System.out.printf("please enter it's name :");
18                   String name=get.nextLine();
19               System.out.printf("please enter it's weight :");
20                   float weight=get.nextFloat();
21               mainList.add(new Dog(name,weight));
22           }
23
24           public void removeDog(){
25               get = new Scanner(System.in);
26               it = mainList.listIterator();
27
28               System.out.printf("please enter it's name :");
29                   String name = get.nextLine();
30
31               while(it.hasNext()){
32                   Pet temp = it.next();
33                   if(temp.getName().equals(name)){
34                       if(temp instanceof Dog){
35                           it.remove();
36                           System.out.println("Removed !!");
37                       }
38                   }
39               }
40           }
41
42           public void listDogs(){
43               for (Pet mainList : this.mainList){
44                   if(mainList instanceof Dog)
45                       System.out.println(""+mainList.toString());
46               }
47           }
48
49           public void addCat(){
50               get = new Scanner(System.in);
51
52               System.out.printf("please enter it's name :");
53                   String name=get.nextLine();
54               System.out.printf("please enter it's coat color :");
55                   String coatColor=get.nextLine();
56               mainList.add(new Cat(name,coatColor));
57           }
58
59           public void removeCat(){
60               get = new Scanner(System.in);
```

```java
 61                    it = mainList.listIterator();
 62
 63                System.out.printf("please enter it's name :");
 64                    String name=get.nextLine();
 65
 66                    while(it.hasNext()) {
 67                        Pet temp = it.next();
 68                        if(temp.getName().equals(name)){
 69                            if(temp instanceof Cat){
 70                                it.remove();
 71                                System.out.println("Removed !!");
 72                            }
 73                        }
 74                    }
 75            }
 76
 77            public void listCats(){
 78                for(Pet mainList : this.mainList) {
 79                    if(mainList instanceof Cat)
 80                        System.out.println(""+mainList.toString());
 81                }
 82            }
 83
 84            public void listAll() {
 85                int i=1;
 86                for (Pet mainList : this.mainList){
 87                    System.out.println(i+"-)"+mainList.toString());
 88                    i++;
 89                }
 90            }
 91
 92            public void dogWeightInf() {
 93
 94                int counter = 0;
 95                float minimum=999,maximum=0,avarage=0,total=0;
 96                it = mainList.listIterator();
 97
 98                    while(it.hasNext()){
 99                        Pet temp = it.next();
100                        if (temp instanceof Dog){
101                            counter++;
102                            if( ((Dog)temp).getWeight() > maximum )
103                                maximum =  ((Dog)temp).getWeight();
104                            if( ((Dog)temp).getWeight() < minimum )
105                                minimum =  ((Dog)temp).getWeight();
106
107                            total += ((Dog)temp).getWeight();
108                            avarage = total / counter;
109                        }
110                    }
111                System.out.printf("Maximum weight = %.2f  Minimum weight = %.2f  Avarage    ↵
                    weight = %.2f\n",+maximum,+minimum,+avarage);
112            }
113
114    }
115
```