```
1 // Keyin Lopez 17/09/2019 Week 3 Lab 05 Pets
    //We are simulting one of those old games where we had a virtual pet.
5 import java.util.Scanner;
 8 public class Main {
10
11⊝
        public static void main(String[] args) {
12
13
14
             Scanner reader = new Scanner(System.in);
15
16
            System.out.println("-Virtual Orangutan-");
             System.out.println("----m-----");
System.out.println(" @(0.0)@");
17
18
             System.out.println("
19
                                        o o");
             System.out.println("
20
             System.out.println("Please Enter a name for your pet Orangutan ");
21
22
23
24
             String name = reader.nextLine();
25
             //reating the pet, playing God.
             Pet Orangutan = new Pet(name);
26
             System.out.println("Initializing stats...");
System.out.println( Orangutan.getName() + "'s Stats-");
27
28
29
             Orangutan.displayStats();
30
             int x = 0;
             System.out.println(Orangutan.getName() + " was born!");
31
32
33
             //while loop and switch case to do the loop and menu
34
             while(x < 10) {
35
                 Orangutan.setAge(Orangutan.getAge() + 1);
                 printMainMenu();
36
37
                 int input;
38
                 input = reader.nextInt();
                 switch(input) {
39
40
41
                 case 1:
                     Orangutan.feed();
42
43
                     System.out.println("WOW HE SWALLLOWED THE BANANA WHOLE and winked! ");
44
                     Orangutan.displayStats();
45
                     break;
46
                 case 2:
47
                     Orangutan.wash();
48
                     System.out.println(Orangutan.getName() + " seems to really enjoy cleaning certain parts..");
49
                     Orangutan.displayStats();
50
51
                     break;
                 case 3:
52
53
                     Orangutan.play();
54
                     System.out.println(Orangutan.getName() + " is a bit agressive");
                     Orangutan.displayStats();
55
56
                     break;
57
                 case 4:
                     Orangutan.health();
58
59
                     System.out.println(Orangutan.getName() + " has a wierd bump on his butt");
                     Orangutan.displayStats();
60
```

```
Orangutan.displayStats();
60
61
62
63
64
65
66
67
70
71
72
73
74
75
76
77
                             break;
                       case 5:
                             X = 10;
                             break;
                       }
                 X++;
if(X == 10){
    //shame...
                       System.out.println(Orangutan.getName() + " this foo died ! ");
System.out.println("Quitting program...");
           }
           //created a function to print the menu to avoid boiler plate code (?)
79
           public static void printMainMenu() {
80<del>0</del>
                System.out.println("Main Menu:");
System.out.println(" 1. Feed \n 2. Wash \n 3. Play \n 4. Health\n 5. -Quit- \n");
System.out.println("Enter a number 1-5");
81
82
83
84
85
86 }
```

```
1 import java.util.Random;
 2
 3 //Create a virtual pet class. A pet is identified by its attributes of name,
 4 //hunger, cleanliness, happiness, health, and age. Display a menu with
 5 //actions to improve one of the attributes by 1. With every action the pet's
 6 //age is increased by 1. When the pet is 10 years old it dies of old age
 8 public class Pet {
        String name;
10
        int hunger, cleanliness, happiness, health, age;
11
        //just a contstructor
12<sub>(-)</sub>
        public Pet(String name) {
13
            this.name = name;
            this.hunger = randomGen();
14
            this.cleanliness = randomGen();
15
16
            this.happiness = randomGen();
17
            this.health = randomGen();
18
            this.age = 0;
19
        //created a function to randomly generate a number from 1 to 10
20
21<sub>0</sub>
        public int randomGen() {
22
            Random rand = new Random();
23
            int number = rand.nextInt(10) + 1;
24
            return number;
25
26
        //the following are just getters and setters
27<sub>(-)</sub>
        public String getName() {
28
            return name;
29
30
31⊝
        public void setName(String name) {
32
            this.name = name;
33
34
35⊜
        public int getHunger() {
36
            return hunger;
37
38
39@
        public void setHunger(int hunger) {
40
            this.hunger = hunger;
41
42
        public int getCleanliness() {
43@
44
            return cleanliness;
45
46
47<sub>(iii</sub>
        public void setCleanliness(int cleanliness) {
            this.cleanliness = cleanliness;
49
50
51<sub>@</sub>
        public int getHappiness() {
52
            return happiness;
53
54
55⊜
        public void setHappiness(int happiness) {
56
            this.happiness = happiness;
57
        public int getHealth() {
59@
68
            return health;
61
```

```
62
 63⊜
          public void setHealth(int health) {
 64
               this.health = health;
 65
 66
          public int getAge() {
 67⊜
 68
               return age;
 69
  70
          public void setAge(int age) {
 71⊝
  72
              this.age = age;
  73
  74
  75
          //to feed the ped
  76⊜
          public void feed() {
  77
              this.hunger += 1;
  78
           //to wash the pet
  79
  80O
          public void wash() {
              this.cleanliness += 1;
 81
  82
 83
 84
          //to play with the pet
          public void play() {
 85@
  86
               this.happiness += 1;
  87
  88
  89
          //to take care of the pet
          public void health() {
  90⊝
  91
              this.health += 1;
  92
  93
  94
 95
          //created a function because I dont want to type more often.
 96⊜
          public void displayStats() {
 97
 98
               System.out.println("Hunger: " + this.hunger);
              System.out.println("Cleanliness: " + this.cleanliness);
System.out.println("Happiness: " + this.happiness);
System.out.println("Health: " + this.health);
 99
100
101
102
103
104
105
          }
106
107 }
108
```

```
-Virtual Orangutan-
----m----m-----
    @(0.0)@
       (0)~~
      0 0
Please Enter a name for your pet Orangutan
Initializing stats...
Arnold's Stats-
Hunger: 8
Cleanliness: 8
Happiness: 4
Health: 10
Arnold was born!
Main Menu:

    Feed

2. Wash
3. Play
4. Health
5. -Quit-
Enter a number 1-5
WOW HE SWALLLOWED THE BANANA WHOLE and winked!
Hunger: 9
Cleanliness: 8
Happiness: 4
Health: 10
Main Menu:

    Feed

2. Wash
3. Play
4. Health
5. -Quit-
Enter a number 1-5
Arnold seems to really enjoy cleaning certain parts..
Hunger: 9
Cleanliness: 9
Happiness: 4
Health: 10
Main Menu:

    Feed

2. Wash
Play
4. Health
5. -Quit-
```

```
Enter a number 1-5
Arnold is a bit agressive
Hunger: 9
Cleanliness: 9
Happiness: 5
Health: 10
Main Menu:

    Feed

Wash
Play
4. Health
5. -Quit-
Enter a number 1-5
Arnold has a wierd bump on his butt
Hunger: 9
Cleanliness: 9
Happiness: 5
Health: 11
Main Menu:

    Feed

Wash
Play
4. Health
5. -Quit-
Enter a number 1-5
WOW HE SWALLLOWED THE BANANA WHOLE and winked!
Hunger: 10
Cleanliness: 9
Happiness: 5
Health: 11
Main Menu:

    Feed

Wash
3. Play
4. Health
5. -Quit-
Enter a number 1-5
Arnold seems to really enjoy cleaning certain parts..
Hunger: 10
Cleanliness: 10
Happiness: 5
Health: 11
Main Menu:

    Feed

2. Wash
3. Play
 4. Health
 5. -Quit-
```

```
Enter a humber 1-5
Arnold is a bit agressive
Hunger: 10
Cleanliness: 10
Happiness: 6
Health: 11
Main Menu:

    Feed

 2. Wash
3. Play
 4. Health
5. -Quit-
Enter a number 1-5
Arnold has a wierd bump on his butt
Hunger: 10
Cleanliness: 10
Happiness: 6
Health: 12
Main Menu:
1. Feed
Wash
Play
4. Health
5. -Quit-
Enter a number 1-5
Arnold is a bit agressive
Hunger: 10
Cleanliness: 10
Happiness: 7
Health: 12
Main Menu:

    Feed

2. Wash
Play
 4. Health
 5. -Quit-
Enter a number 1-5
Arnold seems to really enjoy cleaning certain parts..
Hunger: 10
Cleanliness: 11
Happiness: 7
Health: 12
Arnold this foo died !
Quitting program...
```