1 //Student: Michael Richards  
 2 //Course: CS 140C  
 3 //Date: 1/15/19  
 4 //Project: Lab #2 Part A  
 5 //  
 6 //This progrom will produce a ASCII art of my design.  
 7 public class AsciiArt {  
 8 public static void top() {  
 9 System.out.println(" / \\ / \\ / \\");  
10 System.out.println("/ \\ / \\ / \\");  
11 System.out.println("| | | | | |");  
12 }  
13 public static void main(String[] args) {  
14 top();  
15 System.out.println("| |\_\_\_\_\_| |\_\_\_\_\_\_| |");  
16 System.out.println("| \_\_\_ |");  
17 System.out.println("| | | |");  
18 System.out.println("|\_\_\_\_\_\_\_\_\_\_| | \_\_\_\_\_\_\_\_\_\_|");  
19 }  
20 }

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1 //Student: Michael Richards  
 2 //Course: CS 140C  
 3 //Date: 1/15/19  
 4 //Project: Lab #2 Part B  
 5 //  
 6 //This progrom will produce a rocketship of a specifiyed size.  
 7 public class DrawRocket {  
 8 public static int SIZE = 3;  
 9 //Calculates the whole width of the object.  
 10 public static int WHOLE\_WIDTH = SIZE \* 4 + 4;  
 11   
 12 //Prints Cone  
 13 public static void printCone() {  
 14 int height = SIZE \* 2;  
 15 int width = WHOLE\_WIDTH / 2 - 2;  
 16 for (int i = 1; i < height; i++) {  
 17 //Leading Spacing  
 18 for(int j = 0; j < width - i; j++) {  
 19 System.out.print(" ");  
 20 }  
 21 //Left Slashes  
 22 for(int j = width - i; j < width; j++) {  
 23 System.out.print("/");  
 24 }  
 25 System.out.print("\*\*");  
 26 //Right Slashes  
 27 for(int j = width - i; j < width; j++) {  
 28 System.out.print("\\");  
 29 }  
 30 System.out.println();  
 31 }  
 32 }  
 33   
 34 //Prints Line  
 35 public static void printLine() {  
 36 System.out.print("+");  
 37 for(int i = 0; i < WHOLE\_WIDTH / 2 - 2; i++) {  
 38 System.out.print("=\*");  
 39 }  
 40 System.out.println("+");  
 41 }  
 42   
 43 //Prints the first part of the body.  
 44 public static void printBoddyPart1() {  
 45 for(int i = 1; i < SIZE + 1; i++) {  
 46 int totalPeriods = (WHOLE\_WIDTH / 2 - 2) / 2 - i;  
 47 System.out.print("|");  
 48 //Leading Periods  
 49 for(int j = 0; j < totalPeriods; j++) {  
 50 System.out.print(".");  
 51 }  
 52 //Left Pyramid  
 53 for(int j = 1; j < i + 1; j++) {  
 54 System.out.print("/\\");  
 55 }  
 56 //Middle Periods  
 57 for(int j = 0; j < totalPeriods \* 2; j++) {  
 58 System.out.print(".");  
 59 }  
 60 //Right Pyramid  
 61 for(int j = 1; j < i + 1; j++) {  
 62 System.out.print("/\\");  
 63 }  
 64 //Ending Periods  
 65 for(int j = 0; j < totalPeriods; j++) {  
 66 System.out.print(".");  
 67 }  
 68 System.out.print("|");  
 69 System.out.println();  
 70 }  
 71 }  
 72   
 73 //Prints the second part of the body.  
 74 public static void printBoddyPart2() {  
 75 for(int i = 1; i < SIZE + 1; i++) {  
 76 int pyrimidSize = (WHOLE\_WIDTH / 2 - 2) / 2 - i + 1;  
 77 System.out.print("|");  
 78 //Leading Periods  
 79 for(int j = 1; j < i; j++) {  
 80 System.out.print(".");  
 81 }  
 82 //Left Pyramid  
 83 for(int j = 0; j < pyrimidSize; j++) {  
 84 System.out.print("\\/");  
 85 }  
 86 //Middle Periods  
 87 for(int j = 2; j < i \* 2; j++) {  
 88 System.out.print(".");  
 89 }  
 90 //Right Pyramid  
 91 for(int j = 0; j < pyrimidSize; j++) {  
 92 System.out.print("\\/");  
 93 }  
 94 //Ending Periods  
 95 for(int j = 1; j < i; j++) {  
 96 System.out.print(".");  
 97 }  
 98 System.out.print("|");  
 99 System.out.println();  
100 }  
101 }  
102   
103 //Executes all parts to draw the rocket ship.  
104 public static void main(String[] args) {  
105 printCone();  
106 printLine();  
107 printBoddyPart1();  
108 printBoddyPart2();  
109 printLine();  
110 printBoddyPart2();  
111 printBoddyPart1();  
112 printLine();  
113 printCone();  
114 }  
115 }  
116

 ----jGRASP exec: java DrawRocket  
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