Class PolygonTurtle


```
1  import edu.fcps.Turtle;
2  public class PolygonTurtle extends Turtle
3  {
4      private double mySize;
5      private int mySides;
6      /**
7       * Constructor for PolygonTurtle with no arguments
8       */
9      public PolygonTurtle()
10     {
11         super();
12         mySize = 50.0;
13         mySides = 6;
14     }
15
16     /**
17      * Constructor for PolygonTurtle with 2 arguments
18      *
19      * @param   n   Size of sides
20      * @param   s   Number of sides
21      */
22     public PolygonTurtle(double n, int s)
23     {
24         mySize = n;
25         mySides = s;
26     }
27
28     /**
29      * Constructor for PolygonTurtle with 5 arguments
30      *
31      * @param   x   Initial x coordinate
32      * @param   y   Initial y coordinate
33      * @param   h   Initial heading degrees
34      * @param   n   Size of sides
35      * @param   s   Number of sides
36      */
37     public PolygonTurtle(double x, double y, double h, double n, int s)
38     {
39         super(x, y, h);
40         mySize = n;
41         mySides = s;
42     }
43
44     /**
45      * Accessor method setSize to change private size variable
46      *
47      * @param   n   Double to set size to
48      */
49     public void setSize(double n)
```

```
50      {
51          mySize = n;
52      }
53
54      /**
55       * Accessor method setSides to change private sides variable
56       *
57       * @param   s   Double to set sides to
58       */
59      public void setSides(int s)
60      {
61          mySides = s;
62      }
63
64      /**
65       * Method drawShape draws shape according to sides and size
66       */
67      public void drawShape()
68      {
69          setPenDown(true);
70          for (int i=0;i<mySides;i++){
71              forward(mySize);
72              turnRight(360/mySides);
73          }
74          setPenDown(false);
75      }
76
77      /**
78       * Method drawShape overloaded with an argument for number of sides
79       *
80       * @param   s   Number of sides
81       */
82      public void drawShape(int s)
83      {
84          setSides(s);
85          setPenDown(true);
86          for (int i=0;i<mySides;i++){
87              forward(mySize);
88              turnRight(360/mySides);
89          }
90          setPenDown(false);
91      }
92  }
```