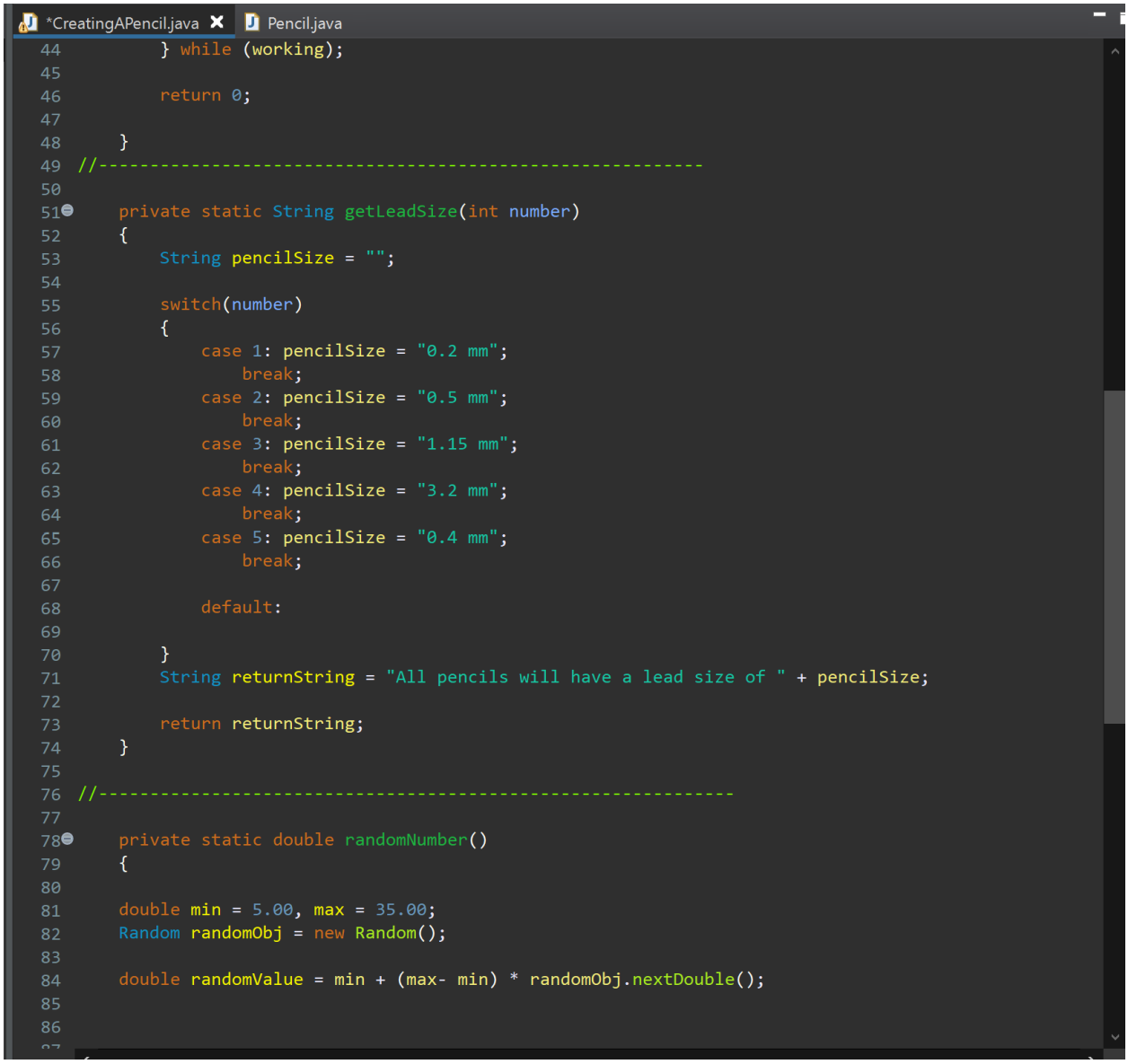
*CreatingAPencil.java *Pencil.java

```java
/*
 * Jack Utzerath
 * CST-105 (9am)
 * Assignment
 * Dec 16, 2021
 * This is my work
 */
package pencil;

public class Pencil {

    //Initialize the attributes

    private double pencilCost;
    private int pencilColor;

    //Build First Constructor

    public Pencil()
    {
        this.pencilCost = 0.0;
        this.pencilColor = 0;
    }

    //Build Second COnstructor
    public Pencil(double pencilCost, int pencilreturnColoror) {
        super();
        this.pencilCost = pencilCost;
        this.pencilColor = pencilreturnColoror;
    }

    //Getters and Setter

    //get Pencil Cost
    public double getPencilCost() {
        return pencilCost;
    }

    //set pencil cost
    public void setPencilCost(double pencilCost) {
        this.pencilCost = pencilCost;
    }

    //set pencil returnColoror
```

```java
    //get pencil returnColoror
    public int getPencilColor() {
        return pencilColor;
    }

    //set pencil returnColoror
    public void setPencilColor(int pencilreturnColoror) {
        this.pencilColor = pencilreturnColoror;
    }

//-------------------------------------------------------------

    //toString() method

    public String toString()
    {
        int color = getPencilColor();
        String returnColor = null;

        if (color == 0)
        {
            returnColor = "Green";
        }
        if (color == 1)
        {
            returnColor = "Blue";
        }
        if (color == 2)
        {
            returnColor = "Yellow";
        }
        if (color == 3)
        {
            returnColor = "Purple";
        }

        String returnString = String.format("Pencil Color: %s", returnColor);

        return returnString;

    }

}
```


*CreatingAPencil.java
Pencil.java
44 } while (working);
45
46 return 0;
47
48 }
49 //--
50
51 private static String getLeadSize(int number)
52 {
53 String pencilSize = "";
54
55 switch(number)
56 {
57 case 1: pencilSize = "0.2 mm";
58 break;
59 case 2: pencilSize = "0.5 mm";
60 break;
61 case 3: pencilSize = "1.15 mm";
62 break;
63 case 4: pencilSize = "3.2 mm";
64 break;
65 case 5: pencilSize = "0.4 mm";
66 break;
67
68 default:
69
70 }
71 String returnString = "All pencils will have a lead size of " + pencilSize;
72
73 return returnString;
74 }
75
76 //--
77
78 private static double randomNumber()
79 {
80
81 double min = 5.00, max = 35.00;
82 Random randomObj = new Random();
83
84 double randomValue = min + (max- min) * randomObj.nextDouble();
85
86

*CreatingAPencil.java Pencil.java

```
84      double randomValue = min + (max- min) * randomObj.nextDouble();
85
86
87
88      return randomValue;
89
90      }
91
92  //---------------------------------------------------------------
93
94      private static double [] createPencils(double[] pencils)
95      {
96          Pencil otherClass = new Pencil();
97
98          for (int pencilColor = 0; pencilColor < 4; pencilColor++)
99          {
100             pencils[pencilColor] = randomNumber();
101
102             otherClass.setPencilColor(pencilColor);
103
104         }
105
106         return pencils;
107
108     }
109 //---------------------------------------------------------------
110
111     private static void printResult(double[] pencils)
112     {
113         Pencil otherClass = new Pencil();
114
115
116
117         for (int j = 0; j < pencils.length; j++)
118         {
119             System.out.println("Pencil Price: $" + pencils[j] + "\t " + otherClass.toString());
120
121
122         }
123     }
124
125 }
126
```