ChartCreator.java

```java
1  package outputManager;
2
3  import java.awt.Color;
4  import org.jfree.chart.ChartFactory;
5  import org.jfree.chart.ChartFrame;
6  import org.jfree.chart.JFreeChart;
7  import org.jfree.chart.plot.CategoryPlot;
8  import org.jfree.data.category.DefaultCategoryDataset;
9  import org.jfree.data.general.DefaultPieDataset;
10 import taxpayer.Taxpayer;
11
12 public class ChartCreator {
13     public void createPieChart(Taxpayer taxp){
14         DefaultPieDataset pieDataset = new DefaultPieDataset();
15         pieDataset.setValue("Entertainment; " + taxp.
16                 getCategoryReceiptAmountPaid("Entertainment"),
17                 taxp.getCategoryReceiptAmountPaid("Entertainment"));
18         pieDataset.setValue("Basic; " + taxp.
19                 getCategoryReceiptAmountPaid("Basic"),
20                 taxp.getCategoryReceiptAmountPaid("Basic"));
21         pieDataset.setValue("Travel; " + taxp.
22                 getCategoryReceiptAmountPaid("Travel"),
23                 taxp.getCategoryReceiptAmountPaid("Travel"));
24         pieDataset.setValue("Health; " + taxp.
25                 getCategoryReceiptAmountPaid("Health"),
26                 taxp.getCategoryReceiptAmountPaid("Health"));
27         pieDataset.setValue("Other; " + taxp.
28                 getCategoryReceiptAmountPaid("Other"),
29                 taxp.getCategoryReceiptAmountPaid("Other"));
30         JFreeChart chart = ChartFactory.createPieChart("Pie Chart",
31                 pieDataset, true, true, true);
32         ChartFrame frame = new ChartFrame("Pie Chart", chart);
33         frame.setVisible(true);
34         frame.setSize(450, 500);
35     }
36
37     public void createBarChart(Taxpayer taxp){
38         DefaultCategoryDataset dataset = new DefaultCategoryDataset();
39         dataset.setValue(taxp.getBasicTax(), "", "Basic Tax");
40         dataset.setValue(taxp.getTaxIncrease(), "", "Tax increase");
41         dataset.setValue(taxp.getTotalTax(), "", "Total tax");
42         JFreeChart chart = ChartFactory.createBarChart("", "",
43                 "Tax analysis in $", dataset);
44         CategoryPlot p = chart.getCategoryPlot();
45         p.setRangeGridlinePaint(Color.black);
46         ChartFrame frame = new ChartFrame("", chart);
47         frame.setVisible(true);
48         frame.setSize(450,500);
49     }
50 }
51
```