```java
import org.w3c.dom.Document;
import org.w3c.dom.Element;

/**
 * Project Dijkstra Algorithm
 * This class is used to define edges within half order and algorithm
 *
 * @author Hakan Tanis
 * @author Kevin Adamczewski
 * @author Jonas Litmeyer
 * Date 30.05.2018
 * @version 3.0
 *
 * Last Change:
 * by: Kevin Adamczewski
 * date: 04.06.2018
 */

public class Edge
{
        /**
         * @param: source
         * @param: destination
         * @param: weight
         */
        private Node source = null;
        private Node destination = null;
        private Double weight = null;

        Edge(Double weight)
        {
                this.weight = weight;
        }

        Node getSource()
        {
                return source;
        }

        /**
         * @param source set name or x axis or y axis?
         */
        void setSource (Node source)
                        {
                this.source = source;

                        }

        Node getDestination()
        {
                return destination;
        }
```

```java
        /**
         * @param destination set name or x axis or y axis?
         */
        void setDestination(Node destination)
        {
                this.destination = destination;
        }
        /*
                Double getWeight()
                {
                        return weight;
                }
                Double setWeight(Double Weight)
                {
                        return weight = weight;
                }
         */




        /**
         *
         * @return
         */
        public String toString()
        {
                String edgeResult = "";

                edgeResult = "Kante von " + source + " zu " + destination  + "
mit dem Gewicht " + weight;

                return edgeResult;
        }

         /*
     * @param doc creats XML document to write everthing in the XML
     * @param edges give the document the attribute
     *
     */
        public void generateXml (Document doc, Element edges)
         {
             Element edge = doc.createElement("Edge");
             edges.appendChild(edge);
             Element source = doc.createElement("Source");
             source.setTextContent("" + this.source);
             edge.appendChild(source);
             Element destination = doc.createElement("Destination");
             destination.setTextContent("" + this.destination);
             edge.appendChild(destination);
             Element weight = doc.createElement("Weight");
             weight.setTextContent("" + this.weight);
```

```
                                    Edge
            edge.appendChild(weight);
        }

    }
```