The given code was compiled in IntelliJ IDEA.
I have created a graph with 10 nodes and 22 edges.
Then I printed the tree with these nodes. The format of printing is:-
(**Bold** and *italic* lines are the code and others are explanation.)
The edges are:-
Edge from vertex i to vertex j with weight w
So there is an edge between vertex i and j with a weight w.
The vertices are {list of vertices}

----------After applying Dijkstra's----------
Distance from vertex i to vertex j is d
So here the minimum distance from a vertex i(which is the starting point) to a vertex j is d.
There is an edge between vertex i and vertex j in the tree.
This is the statement in which I mention the edges(between vertex i and j) in the tree after applying the algorithm.
The vertices in the tree when we start from {start point} are {list of vertices}
In this statement I mentioned the list of vertices in the tree like :-
Vertex i
And the vertices(**j**) which are not in the tree are mentioned as: -
Vertex j is not in the tree (Do not have a path from start point to j)

NOTE:- I have used two libraries, namely

```
import java.util.Comparator;
import java.util.PriorityQueue;
```

The second was mentioned in the HW question.
I used the first library for making the comparator for the priority queue and nothing else. Otherwise I would have to implement the heap again.

To run the code from command line:-
javac main.java
java main