Data Mining: Assignment 1

Due date: January 15 (Tuesday)

Problem 1 (1 point)
Read Chapter 1 of the textbook and give your own definition of Machine Learning.

Problem 2 (4 points)
Implement a program that inputs a directed graph and finds a path between two given vertices. Your program should read a graph from a given file, prompt the user to specify two vertices, and output a path between them. The format of the graph encoding is as follows:

```
<vertex> <vertex>
<vertex> <vertex>
<vertex> <vertex>
...
```

Each line encodes an edge, which points from the first to the second vertex. The vertices are denoted by consecutive natural numbers starting from 1. For example, the following graph consists of three vertices and four edges:

```
1 2
2 3
3 1
3 2
```