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**Information Mining - winter semester 2019/20****Exercise sheet 1**

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**Excercise 1: Understanding**

What is machine learning? Where does machine learning find applications?

**Excercise 2: Understanding**

What is the difference between classification and clustering? Give examples.

**Excercise 3: Understanding**

What is regression and how different is it from classification?

**Excercise 4: Understanding**

Give an example classification problem as well as an example regression problem.

**Excercise 5: Understanding**

What is an attribute? Give some examples.

**Excercise 6: RapidMiner**

Furthermore, for practical exercises we will use *RapidMiner*, a data mining tool.

- (a) Please install *RapidMiner* and get familiar with the application.  
The free version can be downloaded at *rapidminer*<sup>1</sup>. There're also installation guide and documentation on the site.
- (b) Please load and run the example data<sup>2</sup> and the example process<sup>3</sup>. What does this example process do?

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<sup>1</sup>Application: <https://rapidminer.com/download-rapidminer/>

<sup>2</sup>Data: [http://www.is.inf.uni-due.de/courses/im\\_ws19/uebung/data\\_a2.csv](http://www.is.inf.uni-due.de/courses/im_ws19/uebung/data_a2.csv)

<sup>3</sup>process: [http://www.is.inf.uni-due.de/courses/im\\_ws19/uebung/rm\\_intro.XML](http://www.is.inf.uni-due.de/courses/im_ws19/uebung/rm_intro.XML)