HW1: Introduction

Please note: even though the homework assignments are optional, you are encouraged to answer them, as they will help you prepare for your final exam. Send your homework by email to: <u>usman@ifis.cs.tu-bs.de</u>. Please write your solutions in English. **Due date**: before next lecture. Please do not forget your **Matrikelnummer** and your **full name** on your solutions.

1. What is an "information need" and how it connects to "relevance" and "query" in information retrieval?
2. What is the difference between the bag of words model and the set of words model?
3. Why the size of the returned set of a Boolean Query is difficult to control?
4. Explain the differences between Information Retrieval and Web Search.
5. Why in the Boolean Retrieval Model many relevant documents are not found after performing a query?
6. What is an inverted index and what's the motivation for using it?
7. What is the difference between "information retrieval" and "data retrieval"?