In this assignment we try to measure your understanding of the Semantic Web and technologies. This assignment is worth 5% and it is due on or before September 6th; before the class starts.

1. (1 point) Please describe the purpose of the Semantic Web in your own words.

2. (2.5 points) We have learned that the Semantic Web provides a conceptual framework to solve the prior problem with three different components (building models, computing with knowledge, and exchanging information). Describe each component and convince us that the combination of these three components provides a solution to the problem.

3. (1.5 point) Is it possible for an agent in the properly designed Semantic Web to contain human level intelligence? (hint: [BLHL01])

4. (Optional: 2 point) We have talked about Semantic Web for a bit. But what about semantic technologies? Semantic Web is realized through semantic technologies. Describe how it is realized. (hint: knowledge representation, and reasoning).

References