1. Take the following natural language sentences:

- 'The WISTA Technology Park is located at the Rudower Chaussee 26, Berlin, Germany'
- 'The web site http://www.w3.org/ hosts the homepage for the W3C Semantic Web activity'

(a) Write down the sentences in RDF triple notation without blank nodes, using at least 3 triples for each sentence

(b) Write down the sentences in RDF triple notation with at least one blank node, using at least 3 triples for each sentence

2. Take your solutions of exercise 1b and write them down as a directed labelled graph where resources are ellipses, literals are boxes and properties are arrows.

3. Write down the following sentence as RDF (either as triples or as a graph): 'John claims that Mary is married to Bill'. Use reification.

4. Decide whether the following statements can be modelled with the help of RDF(S). If yes, give a graphical representation of the respective statement.

(a) Every pizza is a dish.

(b) Every pizza has at least two toppings.
(c) Every pizza in the class PizzaMargarita has tomatoes as a topping.
(d) Everything that has a topping is a pizza.
(e) No pizza in the class PizzaMargarita has a topping from the class Meat.