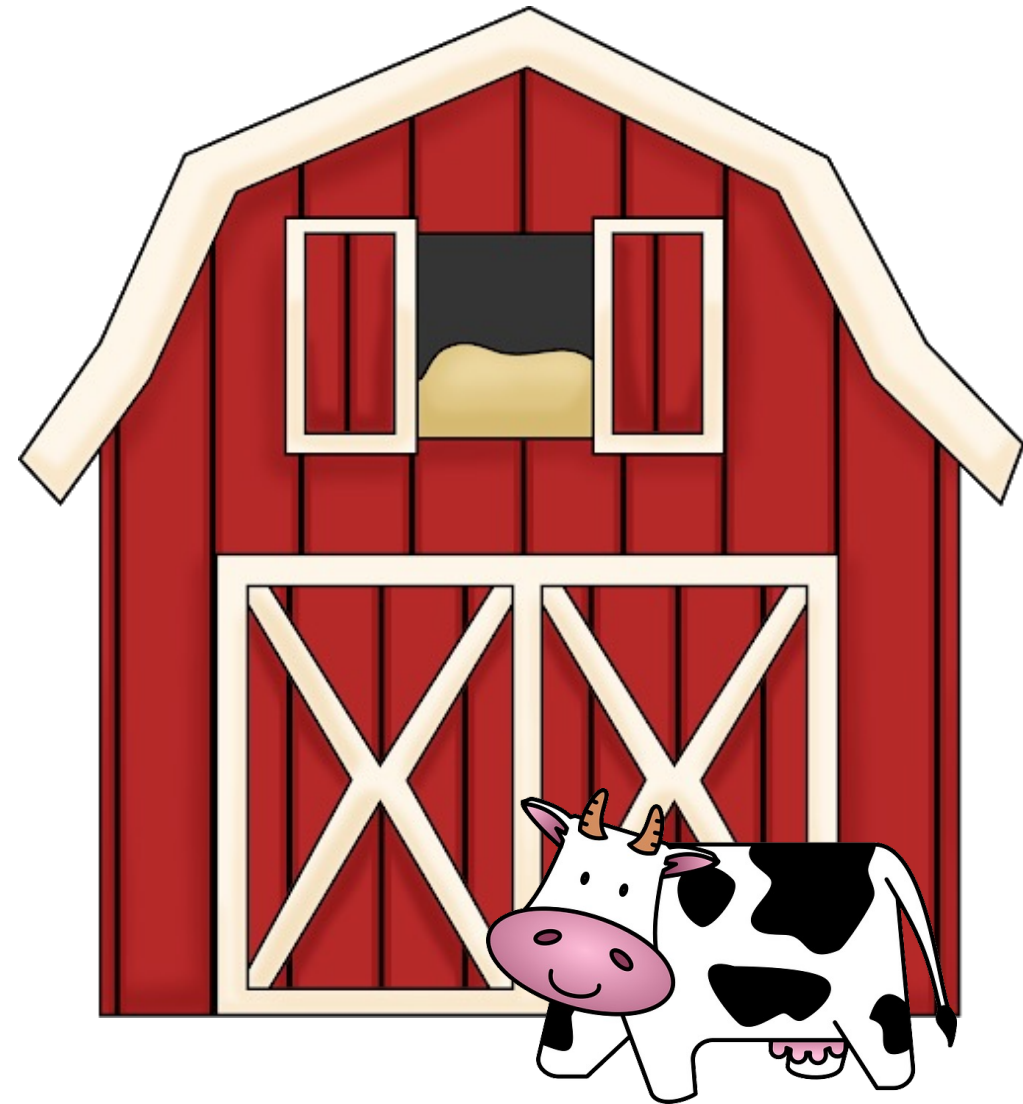# Juniorprogrammierer.de

Java: Object orientation special excersize
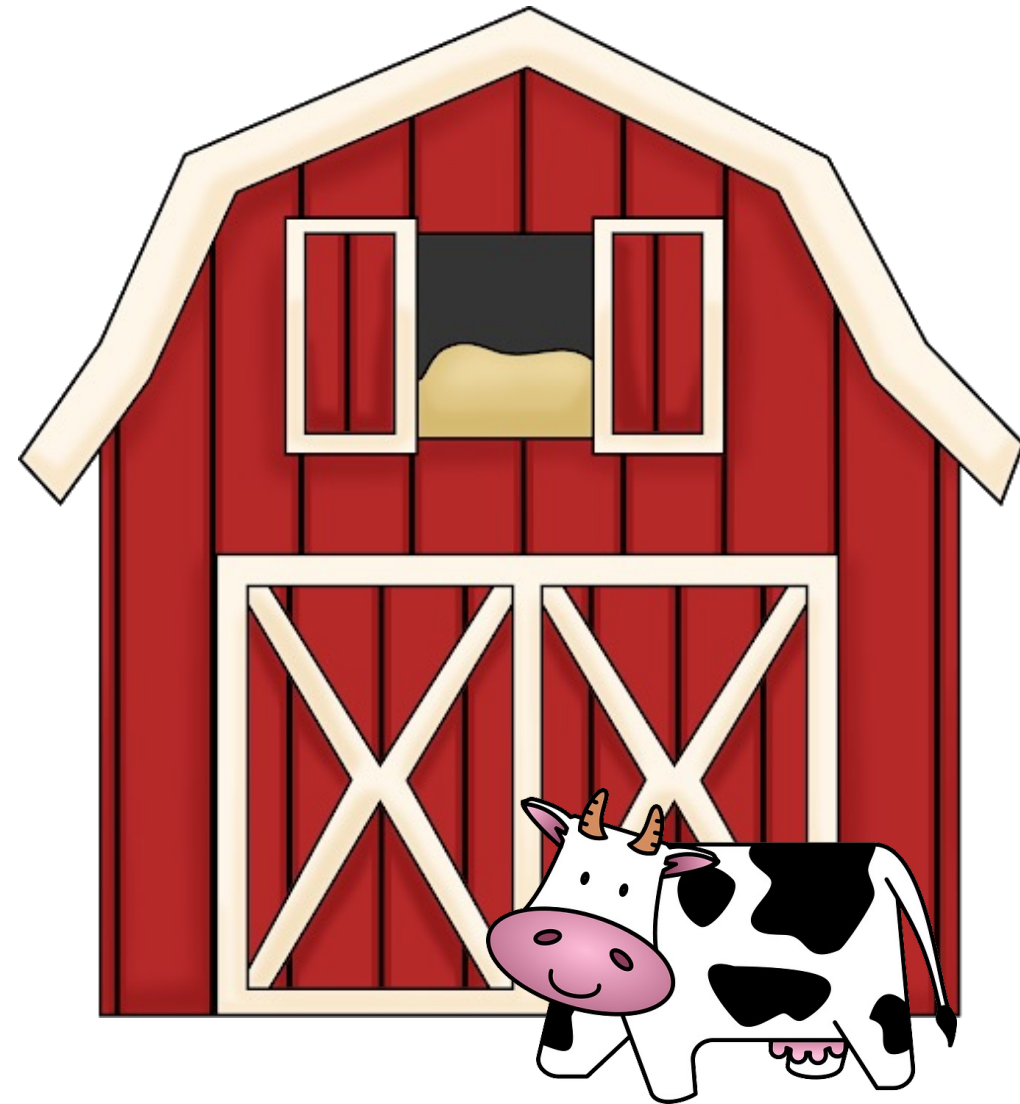
2024/25 – Sascha Stojanovic

Cow farmer I

- A good friend of Sascha asked him for help. One of his students need to develop an application for his cow farm where they produce milk

- Implement class "Kuh" with following details
  - Name as a string Weight as an integer Year of birth as an integer Amount of hay eaten as an integer

Cow farmer II

- Continuing class "Kuh"

- Getter/Setter for name, weight, and year of birth with the following validity checks: o Weight > 35 kg up to a maximum of 1,000 kg o Year of birth: from the present (current year) and at most 15 years in the past

- The ability to feed the cow: fresseHeu(), where the amount of hay (in whole kilograms) is used as the importing-parameter

- A simple status query with all properties: getStatus() calls private method "getString" that prints all attributes

- Use class Testwiese to validate your class "Kuh"

Cow farmer - extension

- "Extend the class "Kuh" (Cow) so that the cow is able to produce milk: For half a liter of milk, the cow needs 5 kg of eaten hay and 7.5 liters of water.

- Questions: a. Define the new attributes that are needed. b. Which methods are now required?