## **Logic Programming**

## **Exercise**

Represent then following as facts or rules:

```
a) john is a person
   person(john).
   peter and mary are persons
   person (peter) .
   person (mary).
   fhnw is a university
   university(fhnw).
   john is matriculated at fhnw
   marticulated(john,fhnw).
   A student is a person who is matriculated at a university.
    student(X) :- person(X), matriculated(X,Y), university(Y).
   Is john a student?
    ?- student(john).
    True
   Is peter a student?
    ?- student(peter).
```

False

```
person(knut).
«KEBI» is a class
class(KEBI).
classes are taught by teachers
areTaught(X,Y) := class(X), teacher(Y).
john attends to class «KEBI»
attend(john,kebi).
students are attending to classes
student(X) := class(Y), attend(X,Y).
Is John a student?
?- student(john).
True
knut teaches «KEBI»
teach(knut,kebi).
Is knut a teacher?
?- teacher(knut).
False
But with:
teacher(X) := class(Y), teach(X,Y).
?- teacher(knut).
True.
```

b) knut is a person



2/2 18. März 2018