

# DSAI - Assignment: Predicate Logic Translations

DIST 24-11-03 Version 1

## Objective

Get familiar with the concepts introduced in predicate logic by translating sentences.

## Things To Learn

- Using predicates.
- Using quantifiers.

## Materials

- Pen and paper

## Submission Guidelines

Solve the following tasks on a sheet of paper in a **neat and readable form** (including headlines!). Submit either scans or high-quality-photographs of your work assembled in a *.zip*-file or a *.pdf*-document.

## Tasks

Translate the following natural-language sentences into predicate logic as shown in class:

1. *Ghosts do not exist.*
2. *Everyone loves Helene Fischer.*
3. *Someone actually likes asparagus.*
4. *All things that breath are alive.*
5. *No human being is immortal.*
6. *All that glitters is not gold.*
7. *Most Japanese watches are durable and reliable.*
8. *Every human being is afraid of something.*
9. *Some animals hunt everything that flies.*
10. *Not all vegans like all vegetables.*