May 02nd Meeting

Members	Time	Venue
Mariano FERREIRONE Hamza ABDOULHOUSSEN Killian CRESSANT Hadrien ROCHU	14h-18h	Lab CRAN

Agenda

1. Search for constraints representation
2. Reasoner
3. Add command flags and arguments
4. Advance on the article

Search for constraints representation

We have looked for the actual representation of semantics in Knowledge Graph to find a way to represent constraints in the Knowledge Graph

Reasoner

We have seen that the `owlready2` package can use the `HermitT` reasoner. We added to the script a method to use the reasoner and save the inferred information

Add command flags and arguments

We have made the script generic by adding flags and arguments.
We can use flags to input the `owl` file and insert the output. Here is the complete description.

```
DESCRIPTION

     -i      [required] [need argument] it is to add the owl input file
         path
             by default, the output is the input with '_output'
             ex : -i "resource/pizza.owl"


     -o      [need argument] add the output file path
             ex : -o "output/pizza"


     -O      [need argument] same as -O but overwrite the file if already
         exists
             ex : -O "output/pizza"


     -p      To print the triple added


     -s      To create standard triple without restrictions

     -r      To add reasoner before


     -kr     [need argument] To keep the ontology made after the reasoner
```

```
25              the argument is the path of the new file
26              ex : -kr "reasoner/pizza.owl"
27
28
29      -Kr     [need argument] same as -kr but overwrite the file if already
            exists
30              ex : -Kr "reasoner/pizza.owl"
```

Advance on the article

We completed the article by explaining the concepts added in the Chess ontology and the issues we have met.

Tasks

— Try to get a visualisation from the `rdf` file
— Continue the article

Next meeting : *May* 04^{th} *2022*