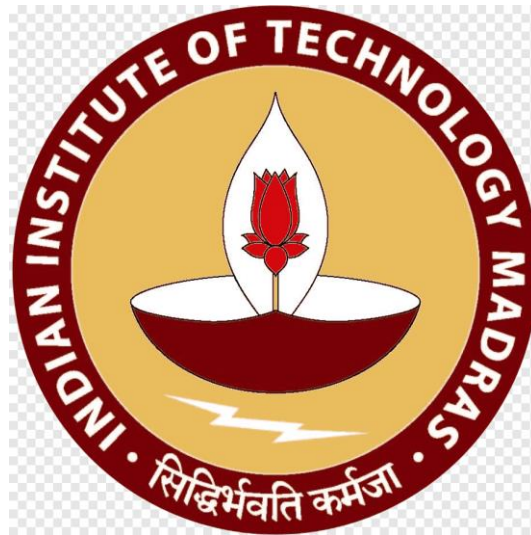


**Indian Institute of Technology, Madras
Chennai**



CS6852: Assignment 4 - Inference using OWL

Group-3

Domain: -Inter IIT Basketball Tournament

**Submitted By: -
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INSTRUCTION AND PREREQUISITE

To run the "cs22m032.py" Python file and obtain the inferences, you need to have Java, Python, and pip installed on your system. Additionally, you must have the following Python packages installed using pip: rdflib and owlready2. Here are the steps to run the code:

1. Place the "Tournament.ttl" OWL ontology file and "TOURNAMENT.xml" XML file in the same directory as the "cs22m032.py" Python file.
2. Open a command prompt or terminal.
3. Navigate to the directory where you have placed the files mentioned above.
4. Execute the following command to run the Python file:

```
python3 cs22m032.py
```

5. The script will start running and perform the necessary operations.
6. After completion, the modified OWL file named "Tournament_final.ttl" will be generated. This file will contain the additional inferred triples.
7. The asserted triples will be saved in two separate text files.
8. The required outputs will be displayed on the console, providing you with the relevant information and inferences from the ontology and XML data.

By following these steps, you will be able to execute the "cs22m032.py" Python script, generate the modified OWL file with inferred triples, and obtain the necessary outputs.