GTU Department of Computer Engineering CSE341 - Fall 2020 Homework 5(Midterm) Report

Akif KARTAL 171044098

1) Parts or properties you have implemented and you did not implemented.

In this homework I implemented everything.

2) Assumptions about the parts you have implemented. Ambiguities and and how you handled them.

I said I implemented everything by looking at the example but query types is not clear in homework pdf.

Simply What I did?

- 1) If query don't have a variable(starting with capital letters) the result will be found anyway as true or false
- 2) If query have a variable(starting with capital letters) only fact results will be found predicate results will be ignored.

Note that while evaluating queries I used resolution and unification methods in my algorithm.

Test Results

input.txt

^{*}As you see there are 7 queries in input file.

^{*}Also in input.txt, string elements must be encapsulated with double-quote(" ") not these ones("").

output.txt

```
output.txt - Notepad
                                                             File Edit Format View Help
-----Query: ?-legs(horse 4).-----
(true)
-----Query: ?-arms(horse 4).-----
()
-----Query: ?-arms(horse 0).-----
(true)
-----Query: ?-legs(human 4).-----
-----Query: ?-legs(human 2).----
(true)
-----Query: ?-friend(human horse 2).-----
(true)
-----Query: ?-arms(A 2).----
(kangaroo human)
```