



**Computer
Science**

**CompSci 367 S2 C
- ASSIGNMENT ONE -**

The work done on this assignment must be your own work. Think carefully about any problems you come across, and try to solve them yourself before you ask anyone else for help. Under no circumstances should you work together with another student on any code used in assignments.

Assessment

**Due: Monday 13th August 2007 9.00 am
Worth: 10%**

Aim of the assignment

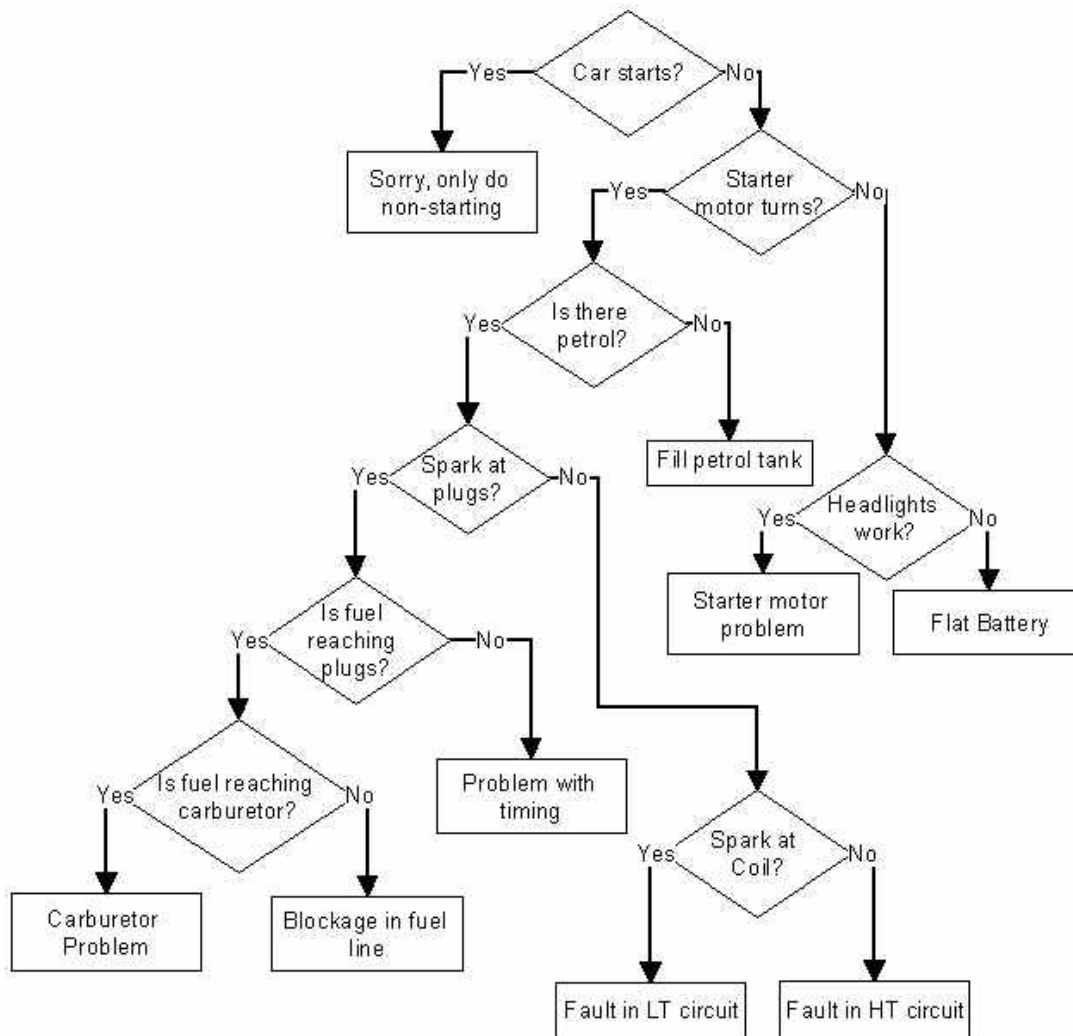
This assignment is intended for you to model knowledge using an intermediate knowledge representation (decision trees) and gain knowledge of a declarative programming language (CLIPS). Additionally, this assignment is aimed at solving problems declaratively rather than algorithmically.

Create a small decision tree for a simple diagnostic task of your choice. Simple computer diagnostics such as: "I can't connect to the Internet" or "I can't print" are suitable tasks. As a guide your decision tree should contain approximately 10 decision nodes.

If you cannot develop a decision tree of your own you may use the decision tree below that diagnoses why a car will not start (note: you will lose 20% for not creating your own decision tree).

Using your decision tree as your knowledge model create a simple rule-based expert system in CLIPS to implement your diagnostic system.

Input and output should be via the CLIPS console only (i.e., no marks will be given for the interface)



MAKE SURE YOUR CODE WORKS CORRECTLY!

Submit your decision tree and assignment code via the Computer Science Assignment Dropbox before the deadline.

<https://adb.ec.auckland.ac.nz/adb/>