Medication Prescriber

By Periwinkle

Medication Prescriber is used to provide preliminary medical prescription for its clients based on FuzzyJ. Overdose is one of the most prevalent problems in medical practice. Medication Prescriber attempts to solve this problem by prescribing the recommended dosage of drugs for the treatment of fever and headache. It also suggests the duration of bed rest required and if a visit to the doctor is needed. The knowledge base of the system is limited to the treatment of fever and headache.

Paracetamol: It is a drug used to treat fever and pain.
Dosage: low – 150 to 200 mg, medium – 185 to 315 mg, high – 300 to 500 mg.
Advil: It is a drug used to treat pain, fever and inflammation. It works effectively against headache.
Dosage: low – 100 to 200 mg, medium – 190 to 290 mg, high – 280 to 400 mg.

Product usage:

i. Unzip the file Project2-Periwinkle.zip
ii. Run periwinkle.java using Java using Command Prompt or Eclipse.
iii. Using Command Prompt: Add the FuzzyJ toolkit (fuzzyJ110a.jar) to the classpath and run the file.
iv. Using Eclipse: Install the Jess plugin. Add the FuzzyJ toolkit (fuzzyJ110a.jar) to the build path (using the option "Add external JARs"). Change the main class in run configuration to nrc.fuzzy.jess.FuzzyMain
v. Follow the instructions and answer the questions on the console.

Test Cases:

a. Give the answers to the questions as follows:

On a scale of 1 to 10, how severe is your fever?
8
On a scale of 1 to 10, what is the severity of your headache?
5
I prescribe 380.0 mg of Paracetamol and 240.0 mg of Advil. I suggest that you consult your doctor immediately and take 8.0 hours of bed rest.

b. Give the answers to the questions as follows:

On a scale of 1 to 10, how severe is your fever?
3
On a scale of 1 to 10, what is the severity of your headache?
8
I prescribe 250.0 mg of Paracetamol and 330.0 mg of Advil. I suggest that you take 4.0 hours of bed rest.