Prolog Assignment 1

1. Create a database of a student containing

* student names
* Roll no of student
* student types
* B tech
* M tech
* MBA
* RS
* Branch of student
* State to which a student belongs
* Areas of interest of students
* Mobile number of students
* CGPA of students

\*\*\*\* Design your query system in such a way that we can query almost all logical relations among the facts. For ex. You can be asked to tell how many male members are there in family in a family database (clauses).

\*\*\* minimum number of entries in any data set must be above 30.

2 .**Design a system which can simulate the scenario of patient and doctor interaction**

* Doctor name
* Doctor’s specialization in disease
* Doctor’s address
* Symptoms and their corresponding diseases
* Remedies for the diseases

Questions /Queries:

* Patient X tells to the system that he/she is having Y,Z ,… symptoms .

System should be able to tell the following things

* Name of the probable diseases
* Remedies to cure it.
* Reference of the concerned doctors(name and address).

\*\*\*\* Design your query system in such a way that we can query almost all logical relations among the facts. For ex. You can be asked to tell how many male members are there in family in a family database (clauses).

\*\*\* minimum number of entries in any data set must be above 30.

3. Create a database of a college containing

* Faculty names
* Faculty types
* Professor
* Assistant professor
* Areas of expertise of faculty
* Departments of study (IT/ECE/MBA)
* Department to which faculty belongs (Prof XYZ belongs to IT department)
* Head of departments
* Students associated with faculty (assume all students are associated with some faculty, no one is left. Assuming that they must be working on some area of expertise of faculty.)

\*\*\*\* Design your query system in such a way that we can query almost all logical relations among the facts. For ex. You can be asked to tell how many male members are there in family in a family database (clauses).

\*\*\* minimum number of entries in any data set must be above 30.

4. Write a prolog program which analyse(parse) the given sentence by defining your own grammar to check whether a sentence is syntactically correct or not(Parsing in Prolog).