**Artificial Intelligence**

* **Practical-2: Write a PROLOG program for diagnosis the childhood diseases.**
* **Code in Prolog:**

symptom(arjun,fever).

symptom(arjun,headache).

symptom(arjun,runnynose).

symptom(arjun,rash).

hypothesis(patient,measles):-

symptom(Patient,fever),

symptom(Patient,cough),

symptom(Patient,conjunctive),

symptom(Patient,runnynose),

symptom(Patient,rash).

hypothesis(Patient,germanmeasles):-

symptom(Patient,fever),

symptom(Patient,headache),

symptom(Patient,runnynose),

symptom(Patient,rash).

hypothesis(Patient,flu):-

symptom(Patient,fever),

symptom(Patient,headache),

symptom(Patient,bodyache),

symptom(Patient,chills),

symptom(Patient,sorethrought),

symptom(Patient,cough),

symptom(Patient,conjunctive),

symptom(Patient,conjunctive),

symptom(Patient,runnynose).

hypothesis(Patient,commoncold):-

symptom(Patient,headache),

symptom(Patient,runnynose),

symptom(Patient,snuzing),

symptom(Patient,chills),

symptom(Patient,sorethrought).

hypothesis(Patient,mumps):-

symptom(Patient,fever),

symptom(Patient,swallenglands).

hypothesis(Patient,chikenpox):-

symptom(Patient,fever),

symptom(Patient,rash),

symptom(Patient,bodyache).

hypothesis(Patient,whooping-cough):-

symptom(Patient,runnynose),

symptom(Patient,snuzing),

symptom(Patient,cough).

**Output:**

