Description :-

Our Expert System is aimed at recommending a car to buy for the user. The Expert System asks the user questions to gauge the user's interests, needs, priorities and preferences and then recommends a car or multiple cars matching the specifications. The questions range from budget to purpose of car (fun/transport) and so on.

How our Expert System works :-

Our Expert System is written in prolog and uses Depth-First Backward Chaining. Depth First Backward Chaining refers to the scenario where the expert system has been provided with the specific goal(s) and must work backwards to figure out how to achieve the set goal(s). To do this the expert system would look through the rule based system to find actions in the "if-then" rules. Rule based system comprises of a knowledge base, which has rules and facts in the form of if-then statements.

Our program is divided into the following parts (with functions in each part):-

- Introduction – main, intro
- Knowledge Base – car
- Inference Engine – findCar, why, care_about,
  want_think, hope_you_like_debt, like_sky,
  brand_nob, kind_of_weird, korean_take,
  know_broke, run,cant_parent,fun_for_you,
  cylinder,engine,with_people,loaded,classy_shouty,
  peel_dairy,axis_alies,want_stick,many_few,
  cash_situation,hair_piece,unpaid_road,like_noise,
  p_excites.
- User Interface – answers, question, answer, ask, parse,descibe