

**C8F**

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**1-Introduction and Description of the problem**

**Prolog (programming in logic) is one in every of the foremost wide used programming languages in computer science analysis. As hostile imperative languages like C or Java (the latter of that conjointly happens to be object-oriented) it's a declarative programming lan- guage. That means, once implementing the answer to a retardant, rather than specifying a way to accomplish bound|a particular|an exact|a precise|a definite|an explicit} goal during a certain scenario, we have a tendency to specify what things (rules and facts) and also the goal (query) area unit and let the programing language interpreter derive the answer for USA. programing language is extremely helpful in some downside areas, like computer science, language process, databases, ..., however pretty useless in others, like graphics or numerical algorithms**

**Implementing an expert system that can predict the names of bird based on a knowledge base that includes their colors, species, and some knowledge of their own.Knowledge Space It must be fully aware of the laws that identify the name of the bird such as (color,faction, size, type, benefit and some other different characteristics.**

**2-Knwoledege Base for the proplem**

**tinamidae(TinamusGuttatus).**

**tinamidae(TinamusOsgoodi).**

**tinamidae(TinamusMajor).**

**casuariiformes(Casuarius).**

**phoenicopteriformes(Falmingo).**

**pelecaniformes(PelecanusRufescens).**

**pelecaniformes(PelecanusOnocrotalus).**

**strigiformes(Owl).**

**strigiformes(Owl,Isbrown).**

**bird(Owl):-family(Strigiformes),sing(Binge).**

**bird(TinamusMajor):-family(Tinamidae),wings(Short).**

**bird(Falmingo):-color(Pink).**

**bird(Penguin):-have(Wings),cannot(Fly).**

**faction(Tinamidae):-theBird(X),member([TinamusGuttatus,TinamusOsgoodi,TinamusMajor]).**

**3- Code containg facts , rules and other required programming concept for the implementation.**

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**4-Sarch tree**

**?-member (X,[TinamusGuttatus, Tinamus Osgoodi, Tinamus Major ]).**

**X=**TinamusGuttatus **X=X1**

**[ ]** **?-member (X,[Tinamus Osgoodi, Tinamus Major ]).**

**X1=**Tinamus Osgoodi **X1=X2**

**[ ]** **?-member (X,[ Tinamus Major ]).**

**X2=**Tinamus Major **X2=X3**

**[ ]** **?-member (X,[ ]).**

**5- Sample outputs (e.g.queries)**

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