

Knowledge Representation

1. Procedural Knowledge

How

↳ Describes How to solve problem

↳ Also known as Imperative Knowledge

↳ Provides dirⁿ on how to do something

↳ can be directly

Includes:

↳ Rules

↳ strategies

↳ procedures etc.

2. Declarative Knowledge

What

↳ describes what is known about problem

↳ Tells us facts - what things are

Includes:

- ↳ Concept
- ↳ Facts
- ↳ Object

It is also known as descriptive knowledge

Data about Data

3. Meta knowledge

↳ Describes knowledge about another knowledge

↳ Used to pick other knowledge that is best suited for solving a problem.

↳ knowledge about other type of knowledge.

4- Heuristic knowledge

- ↳ Represents knowledge of some experts in a field or subject
- ↳ Describes the rules of thumb that guides reasoning process
- ↳ Based on previous experience or approach

Relationship

5- structural knowledge

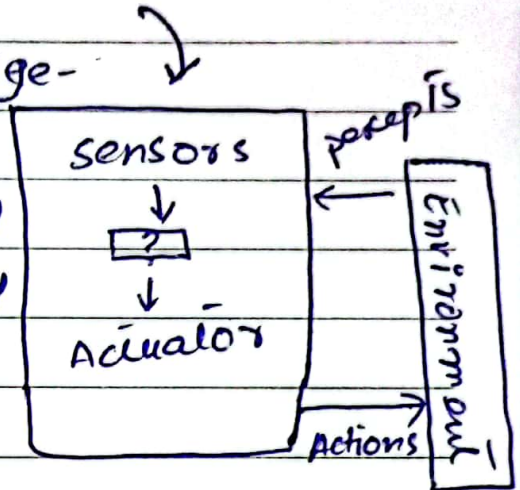
- ↳ Basic knowledge for solving a problem
- ↳ Describes various relationships b/w various concepts
 - group of
 - kind of
 - part of
- ↳ Describes an expert overall mental model of a problem

Knowledge-based Agents

1- What is an agent

2. What is knowledge-based agent

- ↳ knowledge-based
- ↳ Inference-based engine



ایک ایسا ناچ جو چیزوں کو observe / نہ ناچے
 Agent کو action / ناچ کرنا

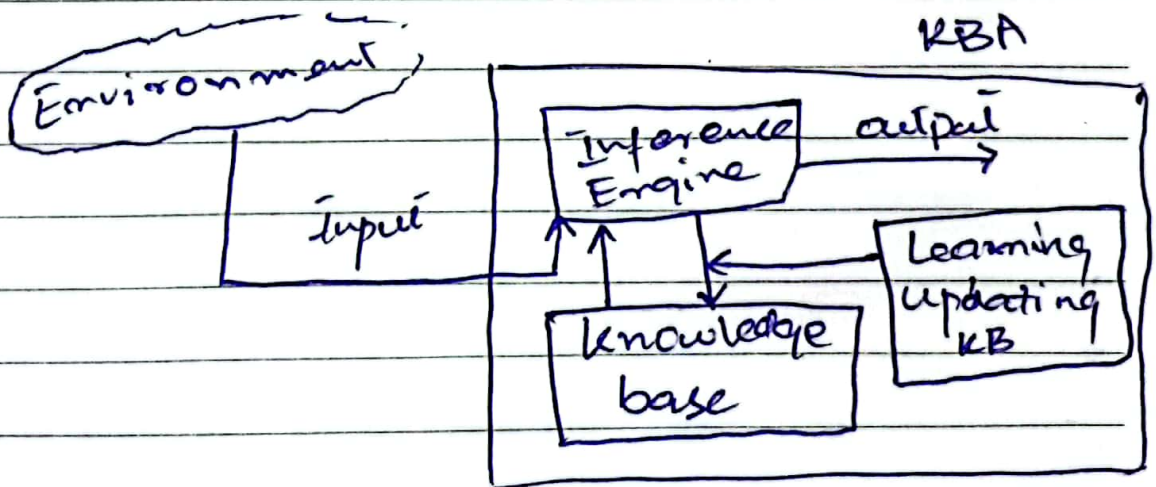
↓
 old sentences & new sentences generate krna

بال آتی ہو آنکھوں سے دیکھی
 باتوں کی مرد سے کہیں کیا

Also called KBA

Have sentences

Input → Decision (sentences)



3 - Levels of KBA

↳ Knowledge Level
ایجنٹ کو کیا پتہ ہے؟

↳ Logical Level
دوسروں کی طرف سے sentences بنانا

↳ Implementation Level
Agent اپنے Target کو achieve کرے۔