

ARTIFICIAL INTELLIGENCE

LAB ASSIGNMENT – 12

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Q) Explain expert system scenario with an example?

The expert systems are the computer applications developed to solve complex problems in a particular domain at the level of extra ordinary human intelligence and expertise.

Characteristics of expert system:

High performance

Understandable

Reliable

Highly responsive.

4 components of an expert system:

Knowledge base

Reasoning or inference engine

User interface Explanation
facility.

Example:

If the knowledge engineer feeds, expert level knowledge diagnosis of papaya plant then the tool will behave as an expert system for diagnosis of papaya plant. Thus, an expert system shell provides a quick way of developing expert system.