

* CSC 361 MT 1 :-

What is AI:

① Acting humanly :-

- The Turing test is a method of inquiry in artificial intelligence for determining whether or not a machine is capable of thinking like a human being.

② Acting humanly :-

- The cognitive modeling approach: This field of cognitive science brings together computer models from AI and experimental techniques from psychology to construct theories of the working human mind.

③ Thinking rationally :

- The laws of thought approach: Aristotle was one of the first to attempt to codify "right thinking". The laws he followed were supposed to govern the operation of the mind, and initiate the field of logic.

④ Acting rationally:-

- The rational agent approach: Acting rationally means acting to achieve one's goals, given one's beliefs. An agent is something that perceives and acts.
- The rational agent design has some advantages. First, it's more general than the "laws of thought" approach. Second, it is more amenable to scientific development than other approaches based on human behavior or human thought.

* Rational agents:-

- Abstractly, an agent is a function from percept histories to actions.

$$f: P^* \rightarrow A$$

* State of the art ch.1 slide 25.