

Artificial Intelligence (AI2002)

Quiz#1

Name:.....

Roll No:.....

Q1: Explain the difference between hill climbing and Simulated Annealing.

Q2: A company wants to develop an AI-powered virtual assistant that can answer customer queries, learn from past interactions, and improve its responses over time. Based on AI definitions and agent types, identify what type of agent this virtual assistant represents and explain why.

Q:3 A person is looking for their oldest common ancestor by searching through a family tree. The tree contains multiple generations, and the oldest ancestor is at the top which algorithm should he use DFS or BFS, and why?