**ACI Assignment**

For the Travel Companion Agent problem, a PEAS (Performance measure, Environment, Actuators, and Sensors) description is a structured way to define the key aspects of an intelligent agent

Performance Measure:

1. Minimize the total cost and time taken to travel from the start node (A) to the goal node (G).
2. Optimize the path selection to ensure that the least expensive and quickest route is chosen.

Environment:

* The agent operates within a graph of cities connected by paths that have associated time and fare costs.
* Each city is a node in the graph, and each path is an edge with a numeric value indicating the fare and time.
* The environment is dynamic to the extent that the travel costs or times may change, reflecting real-world variations in travel conditions.

Actuators:

1. The agent interacts with the environment through a travel app interface similar to MakeMyTrip.
2. The agent may perform actions such as selecting a path, initiating travel, and confirming reservations.

Sensors:

* The agent receives input from the graph through the travel app, which includes information about the cities, paths, and the costs and times associated with each path.
* The agent may also receive updates about changes in travel costs or conditions.