# Assignment I (Submitted via Google Classroom)

## Assignment 1:

For Flipkart shopping agent, what is the Agent Type, Environment, Actuators, Performance Measure, Sensors, Agent Architecture?

\*\*Agent Type:\*\* Model-based reflex agent or Goal-based agent.  
This type of agent uses past data and goals (e.g., maximizing purchases) to make decisions.

\*\*Environment:\*\* The Flipkart website, user behavior, search inputs, purchase history, and product database.

\*\*Actuators:\*\* Displaying product suggestions, sorting/filtering products, recommending similar items.

\*\*Performance Measure:\*\* User satisfaction, number of clicks, purchase conversions, time spent on site.

\*\*Sensors:\*\* User browsing history, search queries, clicks and likes, cart and purchase data.

\*\*Agent Architecture:\*\* PEAS (Performance, Environment, Actuators, Sensors) with a knowledge-based or goal-based system.

## Assignment 2:

Suppose you want to develop an automated taxi, so what will be the Agent Type, Environment, Actuators, Performance Measure, Sensors?

\*\*Agent Type:\*\* Autonomous, goal-based agent with learning capability.  
It makes decisions to reach a destination safely and efficiently.

\*\*Environment:\*\* Roads, traffic, weather, GPS data, passengers, traffic lights, and driving rules.

\*\*Actuators:\*\* Steering wheel, accelerator, brake, indicator lights, horn.

\*\*Performance Measure:\*\* Safety, timely arrival, fuel efficiency, passenger comfort, legal driving.

\*\*Sensors:\*\* GPS, cameras, radar, LIDAR, speedometer, temperature sensor.