#Algo it Initialize the policy i torution, environment, discount factor (gammes) and initial policy over actions for each state. ii'Y Policy Evaluation - For a given state, calculate the value of each action - Update the value of current state using the calculated action values. - Calculate the maximum change in the value function - Repeat if the manimum change is about the trushold in's Policy Improvement: - For a given study calculate the value of each action - update The policy to choose the action with the highest value. ivi Repeat styp 2 & Styp 3 until convergence. Vir Prinst result Coptimal policy) exp3 .. Algo: it Anitolize the MOP environment, discount factor (gamma) & the value function. in Repeat until convengence For a given state, calculate the value of each entron. 971 (s,a) = 11(a/s) * (4+ 4 VH(s)) - Update the value function for each state asing optimal action Nalue: 4(8) - 2 mass [8(5, a)] ox - Exit if manimum change involve function is below threshold is I for each state select the action that manimuse the action value HLS) 2 argman (Q (S) a) 015 Certified iv & Print the result coptimal policy) GAP 4: Same as exp2 Y's point result coptimal policy, value function) Exps: Algorithm: i's Anisializa the a-learning environment, learning secte, discount factor, epsilon and the a - function. ii's Repeat for all the episodio till convergence. - Devide the trade off & choose appropriate action. - Use Bellman Equation to update the a-function. 10) Point the susult (0-function & optimal Policy), incum & value

Exp 6: Bellman equation: Algorithm: Same as MOP 11. & print (value function & optimal policy) Exp 7: Monte Caulo 1: many and insular the L'Y Anitaliza Monte Carlo environment, gamma, epsilon Ejafunction ci't Repeat for all the episodes. - Decide the Aracleoff and generate an episode until it Herminates update the & - function using the episods history & observed Meturns in't find the optimal policy which has manimum & - vidue iv & Print the result (Q - function + Optimal Policy) nent state current et Q (s,a) = Q (s,a) + & (x+ y (max (o (s,a)) - o(s,a)) rate Assount factor nent Carried Control of the Cale Hardon