	Date	
Expt. NoP	age No	
RL		
Homework-3		
Ans 1. Monte Caulo Exploring stants, Modifica	(:	
Initialize:		
1. TI(s) EA(s) (autitnamily), for all s E	5	
2. Q(s,a) ER (arbitranily), for all 5EB,	a E A (5)	
2. $Q(s,a) \in \mathbb{R}$ (arbitrarily), for all $s \in S$, $Q(s,a) = 0 \forall s \in S$, $a \in A(s) = 0$		
Loop forever (for each episode): 4. Choose so Es, Ao E A(so) mandomly pains have probability >0 5. Grenerate an episode from so, A. fo R.,, ST-1, AT-1, RT-1 6. Gt 0 J. Loop for each step of episode, T = T-1, T 8. Gt TG+R William the format se, At opposition 9. N(st, At) = N(st, At) + 1 10. Q(st, At) = Q(st, At) + 1 N(st, At)	clowing T : 5, Ao,	
11. $TT(s_1) \leftarrow \underset{a}{\text{argmax}} \vartheta(s_1, a)$		
(State, aution papers)		
line 3 initializes the count of N(s, a) Y SE	s, a EA	
inversely the court of S. A. by I.		
Line to updates the & value by inversental v	near approch	



Teacher's Signature : _____

Ans2

Back up diagram for Monte Carlo Estimation of 971.

$$(s,a) \mapsto a_{\pi}(s,a)$$

$$S_{1}$$

$$(s,a) \mapsto a_{\pi}(s,a)$$

$$H_{2}$$

$$S_{2}$$

	Date
Expt. No.	Page No.
Ans 6.3 In the first	episode, the terminal state is
Har let Les	ninal state bet because of
which the	Value of state only devices by which is 0-45. The estimate of
state A char	nged because the Estimeted val
el terminel	state: O while of others of
and also the	remembered is O in this episode
Ans 6.4	
5	
•	
3	